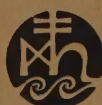


# HUMPBACK WHALES

A CATALOGUE OF INDIVIDUALS  
IDENTIFIED BY FLUKE PHOTOGRAPHS



EDITED BY STEVEN K. KATONA, PATRICIA HARCOURT,  
JUDITH S. PERKINS AND SCOTT D. KRAUS



COLLEGE OF THE ATLANTIC  
BAR HARBOR, MAINE 04609



*To anyone not fully acquainted with the ways of the leviathans, it might seem an absurdly hopeless task thus to seek out one solitary creature in the unhooped oceans of this planet. But it did not seem so to Ahab, for he knew that when making a passage from one feeding-ground to another, the whales, guided by some infallible instinct mostly swim in veins, as they are called; containing their way along a given ocean-line with such undeviating exactitude, that no ship ever sailed her course, by any chart, with one tithe of such marvellous precision.*

**-- Herman Melville 1851**

LAYOUT & DESIGN

BY

CHRISTINE MOORE

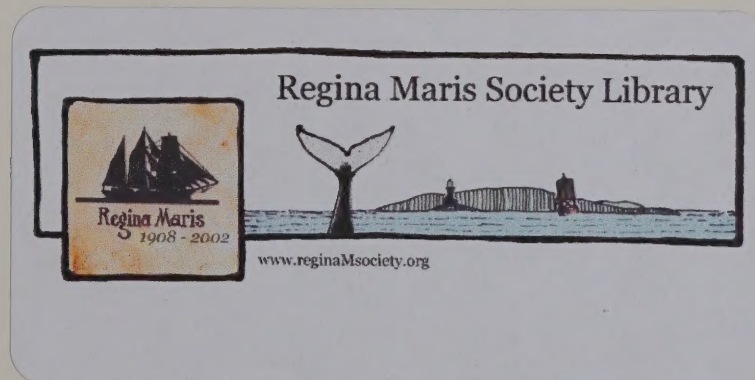
# HUMPBACK WHALES:

A CATALOGUE OF INDIVIDUALS  
IDENTIFIED IN THE WESTERN  
NORTH ATLANTIC OCEAN BY  
MEANS OF FLUKE PHOTO-  
GRAPHS.

EDITORS:

STEVEN K. KATONA  
PATRICIA M. HARCOURT  
JUDITH S. PERKINS  
SCOTT D. KRAUS

SECOND EDITION, JULY 1980



COLLEGE OF THE ATLANTIC  
BAR HARBOR, MAINE 04609



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# TABLE OF CONTENTS

4	EDITORS' NOTE
5	CONTRIBUTORS OF PHOTOGRAPHS
10	ACKNOWLEDGMENTS
12	METHODS
15	RESULTS
17	DISCUSSION
20	REFERENCES
21	TABLE 1 - LIST OF SIGNIFICANT RESIGHTINGS 1972-1980
29	TABLE 2 - GEOGRAPHIC DISTRIBUTION OF SIGNIFICANT RESIGHTINGS
29	TABLE 3 - SUMMARY OF LONGTERM RESIGHTINGS BY REGION
30	TABLE 4 - YEAR BY YEAR RESIGHTINGS, GULF OF MAINE
31	TABLE 5 - YEAR BY YEAR RESIGHTINGS, NEWFOUNDLAND - LABRADOR
32	FIGURE 1 - GEOGRAPHIC DISTRIBUTION OF CATALOGUE PHOTOGRAPHS
33	FIGURE 2 - MIGRATIONS OF PHOTO-IDENTIFIED WHALES
34	FIGURE 3 - SUMMER RANGES, GULF OF MAINE REGION
35	FIGURE 4 - SUMMER RANGES, NEWFOUNDLAND - LABRADOR
36	FLUKE PHOTOGRAPHS
SECTION 1. <u>NEWFOUNDLAND-LABRADOR, 1979.</u> PAGE 37	
MAJOR CONTRIBUTORS: PETER BEAMISH, JON LIEN, HAL WHITEHEAD GROUP (HANNAH CLARK, PATTY HARCOURT, KATHY INGHAM, MICHAEL MOORE, AND HAL WHITEHEAD)	
SECTION 2. <u>NEWFOUNDLAND-LABRADOR, 1978.</u> PAGE 82	
MAJOR CONTRIBUTORS: HAL WHITEHEAD GROUP (HANNAH CLARK, PATTY HARCOURT, KATHY INGHAM, MICHAEL MOORE, AND HAL WHITEHEAD)	
SECTION 3. <u>NEWFOUNDLAND-LABRADOR, PRE-1978.</u> PAGE 110	
MAJOR CONTRIBUTORS: PETER BEAMISH, PETER COHEN, JUDY PERKINS, HAL WHITEHEAD	
SECTION 4. <u>SOUTHERN NOVA SCOTIA-GULF OF MAINE.</u> PAGE 117	
MAJOR CONTRIBUTORS: OLIVER BRAZIER, STEVEN KATONA, CHARLES "STORMY" MAYO, SCOTT MERCER	
SECTION 5. <u>BERMUDA.</u> PAGE 130	
MAJOR CONTRIBUTORS: OLIVER BRAZIER, PERSONNEL OF <u>SV REGINA MARIS</u> (KEN BALCOMB, BILL CONRAD, PETER COHEN, PAUL GRABHORN), AND GREG STONE	
SECTION 6. <u>SILVER AND NAVIDAD BANKS.</u> PAGE 134	
MAJOR CONTRIBUTORS: PERSONNEL OF KETCH <u>OSPREY</u> (PHILLIPS HARRINGTON AND SUSAN WHITING PLUS HERB HAYS AND EARTHWATCH APPRENTICES); PERSONNEL OF <u>SV REGINA MARIS</u> (GEORGE NICHOLS, KEN BALCOMB, BEN BAXTER, PETER COHEN, C. FRICK); HOWARD WINN.	
SECTION 7. <u>PUERTO RICO.</u> PAGE 141	
MAJOR CONTRIBUTORS: DAVID MATILLA AND NATALIE WARD	
146	INDEX TO PHOTOGRAPHS



## EDITORS' NOTE

It is something of a relief to present here the second catalogue of humpback whales which have been individually identified in the western North Atlantic Ocean region by means of photographs of the patterns on the undersides of their flukes. There are several reasons why the emotion relief feels appropriate. First, for a few brief moments we will be caught up to date with the available research material, which represents contributions from workers gathered over more than 10 years. Hundreds of new photographs have already been gathered in 1980 by scientists and whalewatchers from the Caribbean to Newfoundland, but they haven't yet been sent to us and our desks are this day relatively clear. Second, assembly of this catalogue is our way of repaying all the people who have cooperated over the years by sharing their photographs. It is gratifying to be able to answer, "Now!" to the frequent question, "When will the catalogue be ready?" and thus to discharge, in part, the great debt we owe to so many collaborators. Finally, all of us can share in the relief and pride that this project is yielding results of value greater than any of us could have achieved alone or than we could have predicted.



# CONTRIBUTORS OF PHOTOGRAPHS

We wish to take this opportunity to give special recognition to several workers whose long-term research efforts have resulted in substantial photo collections which they have generously contributed to this catalogue. In the Newfoundland-Labrador region, Dr. Peter Beamish, Dr. Jon Lien, and Hal Whitehead have gathered exceptional numbers of photographs. In the Gulf of Maine region, Oliver Brazier, Scott Mercer, and Michael Williamson have contributed steadily over the years and the excellent research program of Dr. Charles "Stormy" Mayo has yielded exceptional photo coverage of the southern part of the Gulf of Maine. Oliver Brazier, Jane Frick, and the staff and apprentices of the SV Regina Maris gathered most of the Bermuda photographs in the collection during numerous visits. Photos from Silver and Navidad Banks have been collected largely by staff and apprentices of the SV Regina Maris; by Susan Whiting, Phillips "Flip" Harrington and their guests on the ketch Osprey; and by Prof. H. E. Winn and his students. Finally, the photographic collection from the Puerto Rico region has come nearly entirely from the work of David Matilla and Natalie Ward.

Listed below are all the people who have contributed photographs to this project. Contributors are listed alphabetically, regardless of whether they sent one photo or hundreds. To all of these people go our thanks, appreciation, and hopes that future seasons will bring additional photos for the continuation of this research.

David Arnold  
309 Musterfield Road  
Concord, MA 01742

Bob Bowman  
c/o Beal & Bunker  
Great Cranberry Is., ME 04625

Peter Auster  
c/o CETAP  
University of Rhode Island  
Narragansett, RI 02882

R. T. Bradbury  
RFD #1  
Waterhold Road  
Colchester, CT 06415

Ken Balcomb  
c/o Ocean Research & Education Society  
64 Commercial Wharf 6  
Boston, MA 02110

Oliver Brazier  
P.O. Box 336  
North Falmouth, MA 02556

Bill Barton  
Tuck's Pt. Road  
Manchester, MA 01944

Dr. Paul Brodie  
Bedford Institute of Oceanography  
Dartmouth, Nova Scotia, Canada

Ben Baxter  
c/o College of the Atlantic  
Bar Harbor, ME 04609

R. W. Burton  
P.O. Box 356  
Carver, MA 02330

Dr. Peter Beamish  
P.O. Box 10  
Trinity, Trinity Bay  
Newfoundland AOC 250, Canada

Annemarie Busch  
River Road  
Lyme, NH 03768

S. Bloom  
c/o Earthwatch  
Belmont, MA

Bob Caron  
1343 County Street  
E. Taunton, MA 02718

R. Bonner  
c/o Earthwatch  
Belmont, MA

CETAP (Cetacean & Turtle Assessment  
Program)  
Graduate School of Oceanography  
Narragansett, RI 02882



## CONTRIBUTORS OF PHOTOGRAPHS

Hannah Clark  
Ram Island  
Marion, MA

Peter Cohén  
16 Overlook Lane  
Longmeadow, MA 01106

Bill Conrad  
Rt. 2 Box 69A  
Sutton's Bay, MI 49682

Leslie Cowperthwaite  
Bedford Road  
Lincoln, MA 01778

William Curtsinger  
Biddeford Pool, ME 04006

William Davidson  
3202 Gratiot  
Port Huron, MI 48060

Dennis DelDonno  
77 Spring Street  
Lexington, MA 02173

Tom Dubourg  
c/o Ocean Research &  
Education Society  
64 Commercial Wharf 6  
Boston, MA 02110

Duncan Finlayson  
Woody Pt.  
Newfoundland, Canada

Jane Frick

Joe Fudge  
The Daily Press  
P.O. Box 746  
Newport News, VA 23607

Frank Gardner  
c/o Children's Museum of Connecticut  
950 Trout Brook Drive  
W. Hartford, CT 06119

Al Gaston  
8 Stowe Road  
Sandwich, MA 02563

Jane M. Gibbs  
Newburyport Daily News  
Newburyport, MA 01950

Donna R. Goodale  
c/o CETAP  
University of Rhode Island  
Narragansett, RI 02882

Jeff Goodyear  
Montague Rd.  
Sunderland, MA 01375

Paul Grabhorn  
c/o College of the Atlantic  
Bar Harbor, ME 04609

Mr. and Mrs. H. B. Guthrie  
RR 2 Box 173  
Bedford, NY 10506

Dr. Jim Hain  
c/o CETAP  
University of Rhode Island  
Graduate School of Oceanography  
Narragansett, RI 02882

Patty Harcourt  
1304 South Street  
Tewksbury, MA 01876

Henry A. Harding  
York Harbor, ME 03911

Carol Harward  
Peabody Museum  
11 Divinity Avenue  
Cambridge, MA 02138

Carl Haycock  
Box 614a  
Kennebunkport, ME 04046

Dr. Herbert Hays  
Department of Biology  
Shippensburg State College  
Shippensburg, PA 17257

Paul Hodgdon  
Glacier Bay Lodge  
Glacier Bay National Monument  
Gustavus, AK 99826

Tom Horn  
Atlantic Center for Environment  
950 Highland Avenue  
Ipswich, MA 01938



# CONTRIBUTORS OF PHOTOGRAPHS

Dr. J. R. Hyman  
55 Lafayette Drive  
Port Chester, NY 10573

Gerald Iles  
2053 Ave de Vendome  
Montreal, H4A 3M4, Canada

Kathy Ingham  
30 Little River Road  
S. Dartmouth, MA

Dr. Steven K. Katona  
College of the Atlantic  
Bar Harbor, ME 04609

Tom Keyser  
Concord Monitor  
Concord, NH 03301

Bob Knott, Chairman  
Department of Fine Arts  
North Carolina School of the Arts  
200 Waughtown Street  
Winston-Salem, NC 27107

Scott Kraus  
c/o New England Aquarium  
Central Wharf  
Boston, MA 02110

Dotte Larsen  
6 Woodstock Le.  
Pittsford, NY 14534

William Leapley  
U.S. Naval Oceanographic Office  
Code 7710  
Washington, DC 20390

Tudor Leland  
"The Flying Sorceress"  
Beverly Farms, MA 01915

Dr. Coleman Levenson  
Oceans Science Department  
Applications Research Division  
Product Formulation Branch  
U.S. Naval Oceanographic Office  
Washington, DC 20390

Dr. Jon Lien  
Psychology Department  
Memorial University of Newfoundland  
St. Johns, Nfld. A1C 557, Canada

Gary Manter  
c/o Sailing Education Assoc. (SEA)  
Woods Hole, MA 02543

Gerry Maraghy  
23 Kaler Road  
South Portland, ME 04106

Scott Marion  
21 Montgomery Pl.  
Jericho, NY 11753

David Matilla  
3558 S. River Terrace  
Edgewater, MD 21037

Dr. Charles Mayo  
c/o Provincetown Center for  
Coastal Studies  
Box 826  
Provincetown, MA 02657

Bill McDowell  
c/o College of the Atlantic  
Bar Harbor, ME 04609

Scott Mercer  
43 Mace Road  
Hampton, NH 03842

Bora Merdsoy  
7 Appledore Place  
St. Johns, Nfld., Canada

Karen Moore  
Woods Hole Oceanographic Institute  
Woods Hole, MA 02543

Michael Moore  
c/o Department of Zoology  
Cambridge University  
Cambridge, England

George Nichols, M.D.  
c/o Ocean Research & Education Society  
64 Commercial Wharf 6  
Boston, MA 02110

Dr. R. N. Ohde  
184 Lexington Street  
Belmont, MA 02178

Chris Ostrander  
c/o College of the Atlantic  
Bar Harbor, ME 04609

N. A. Overstrom

## CONTRIBUTORS OF PHOTOGRAPHS

Linda Pacheco  
Ontario Science Center  
770 Don Mills Road  
Don Mills, Ontario, Canada MC3 IT3

Dr. Roger Payne  
Weston Road  
Lincoln, MA 01773

Judy Perkins  
School of Forestry  
Yale University  
New Haven, CT

Davis Pike  
30 Main Street  
Lubec, ME 04658

Galen Pitman  
Manomet Bird Observatory  
Manomet, MA 02345

John O. Polishook  
1337 Murray Avenue  
Plainfield, NJ 02060

Louise Potts  
Brooklin, ME 04616

Kevin Powers  
Manomet Bird Observatory  
Manomet, MA 02345

Carol Price  
c/o CETAP  
University of Rhode Island  
Narragansett, RI 02882

Cathy Ramsdell  
c/o College of the Atlantic  
Bar Harbor, ME 04609

Mary Ratnaswami  
c/o CETAP  
University of Rhode Island  
Narragansett, RI 02882

Sally Richards  
69 Andrews Road  
Guilford, CT 06437

Mike Rosen  
Terra Nova National Park  
Newfoundland, Canada

William Rossiter  
Whales Unlimited  
21 Laurel Hill Road  
Ridgefield, CT 06877

Tim Ramage  
Curator, Natural History  
Rhode Island School of Design  
Providence, RI 02903

Steve Savage  
c/o College of the Atlantic  
Bar Harbor, ME 04609

Richard Sears  
51 Portside Circle  
Falmouth, MA 02541

Greg Stone  
c/o College of the Atlantic  
Bar Harbor, ME 04609

G. Tatum  
c/o Ocean Contact  
The Inn  
Trinity, Nfld. AOC 250, Canada

Peter Thomas  
University of Santa Cruz  
Santa Cruz, CA

Nancy Thompson  
c/o CETAP  
University of Rhode Island  
Narragansett, RI 02882

Porter Turnbull  
213 Converse Road  
Marion, MA 02738

Peter Vickery  
Box 127  
Richmond, ME 04367

Natalie Ward  
Box 573  
Woods Hole, MA 02543

William A. Watkins  
Woods Hole Oceanographic Institute  
Woods Hole, MA 02543

Mason Weinrich  
202 Riverside Drive  
New York, NY 10025



# CONTRIBUTORS OF PHOTOGRAPHS

Bruce M. Wellman  
Bedford Road  
Lincoln, MA 01778

Randy Wells  
c/o Ocean Research & Education Society  
64 Commercial Wharf 6  
Boston, MA 02110

Hal P. Whitehead  
Department of Zoology  
Cambridge University  
Cambridge, England

Susan B. Whiting  
Osprey Charters, Inc.  
Box 23  
West Tisbury, MA 02575

Mike Williamson  
21 Norman Avenue  
Magnolia, MA 01930

John Winchester  
Box 95  
Prides Crossing, MA 01965

Dr. Howard E. Winn  
Graduate School of Oceanography  
University of Rhode Island  
Kingston, RI 02881

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Each photograph listed in the index is credited to the contributing photographer(s). Photographs included in this collection have in some cases been obtained during public whalewatching cruises or private expeditions or research supported by the photographers themselves. In other cases, photos have been obtained in association with research projects organized or funded by various agencies or organizations. We are aware of the following sources whose financial or logistic support to the individuals noted has resulted in photographs for this collection:

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# METHODS

This project revolves around three simple steps: (1) obtaining clear photographs of the ventral side of the flukes of a humpback whale as it raises the flukes into the air while performing a deep dive; (2) preparing all photographs in a similar format and keeping track of all data associated with each photo; and (3) comparing photographs to detect resightings of the same individual at different times and/or places. Experience has helped us to evaluate the best technique for ensuring that those steps remain simple, as summarized below. More details can be found in Katona and Kraus (1979); Katona et al. (1979); and Kraus and Katona (1977).

## 1. OBTAINING CLEAR PHOTOGRAPHS

Three main ingredients must be combined to produce a clear, useful photograph. The first ingredient is the whale. Each humpback has its own rhythm of breathing and diving in any particular context. The frequency and angle of fluke raising will depend on location, sea conditions, and behavioral mode (feeding shallow, feeding deep, accompanying calf, attempting to mate, etc.), among other factors. Flukes tend to be raised higher and more frequently on feeding grounds than on breeding grounds, but each animal and situation must be treated individually. The most important step is for the boat pilot and the photographer to watch a whale until they can function in synchrony with the animal's rhythm. That rhythm will usually be relatively constant for a number of dive sequences, at least. Development of sensitivity between the actions of boat, photographer, and whale is the single most important ingredient in obtaining a good photograph, because the photographer will then be ready, in the best possible position relative to the whale, and both he and the pilot will know by the number of breaths and the posture change of the whale that a dive is about to occur. Development of this sensitivity will also minimize disturbance to the whale and may, by providing the whale with a series of relatively predictable and gentle boat maneuvers, provide a context for better photographs. The best, least ambiguous photograph will be a "flat-on" view of the fluke, as it is displayed vertically, parallel to the film plane. Additional views of the whale should be photographed, if possible, including both sides of the dorsal fin; the flippers (noting whether a frame portrays the left or right flipper and dorsal or ventral aspect); and any notable behavior. These additional views may possibly help to corroborate individual identification or to establish the sex of an animal. When more than one whale is present, it becomes more difficult to concentrate on an individual and develop a sensitivity to its rhythm, but the best results will still be obtained by staying with one animal until it is adequately photographed, then concentrating on another animal. Good field notes for each photo frame are essential, as detailed below.

The second ingredient is the camera and lens system. The most appropriate equipment for this work has proven to be a metered 35 mm camera equipped with motor drive or power winder and a sharp 300 mm automatic lens. This combination has consistently produced the best photographs we have received. A film advance speed of 1 or 2 frames per second is usually sufficient for obtaining a suitably good photograph during a diving sequence. Occasionally a nearby whale will require a shorter lens length, and for such exigencies a good-quality zoom lens of approximately 72-205 mm focal length may be useful. We do not recommend the use of a "doubler" for this work.

The third ingredient is the film. Photography of a moving object from a moving boat requires a short exposure time and consequently a high filmspeed. Shutter speed of 1/1000 second can be relied upon to eliminate motion, although slower speeds can sometimes be used. A filmspeed of ASA 400 is usually sufficient to permit such short exposures at reasonable f-stops. Both color (Ektachrome 400 for slides or Kodacolor 400 for prints) and black and white film (Kodak Tri-X or



Ilford HP-5) are available at that speed. We use black and white photography in the field and for production of this catalogue because it is less expensive and easier to print in a standard format (see below). We used to recommend exposing whole rolls of either Tri-X or HP-5 at ASA 1000 or 1200 and developing for 7 minutes at 70°F in Acufine developer. This technique should still be used when low light conditions would otherwise impair photography. An even higher exposure index (up to ASA 1600 or 2400) can be obtained using Diafine developer. Similarly, several laboratories do custom processing of Ektachrome slide film exposed at ASA ratings up to 1000. One such lab is Creative Photography, P.O. Box 2312, Kettering, OH 45429. However, in most cases ASA 400 is sufficient.

The camera should have an accurate through-the-lens light-meter, but it is important to doublecheck the camera with commonsense. The glare of sunlight reflected from water or from wet, black whale skin can fool even the most expensive light meter into dictating an underexposure. A good check is to point the lens at a light gray card, sweater, or boat deck in full light and use the resulting meter readings to make the exposure. If your meter fails to work, a good emergency rule of thumb is to set the shutter speed at about the ASA rating of the film (e.g. 1/500 sec. for ASA 400 film) and set the lens diaphragm to between f 11 and f 16 for good exposures in full sunlight.

## 2. PHOTOGRAPH FORMAT AND ASSOCIATED DATA

We have prepared all photographs as black and white prints, 2" x 3½" in size, for inclusion in the catalogue. Photos are normally printed in triplicate, the best print being used for the catalogue and the others for file copies. We are able to prepare formatted catalogue photos from any primary photographic material as follows:

- A) Color slides. Slides are copied onto fine-grain black and white 35 mm film (Kodak Panatomic X, ASA 32) using a Bowsens Illumitron Slide Duplicator (Model 3), a Nikkor Macro lens, and the standard operating instructions for the instrument. Information labels for each slide are written in pencil on vellum tracing paper and photographed preceding the frames they describe. The negative sheets thus contain identifying data for each image.
- B) Prints. Color or black and white prints are copied onto Panatomic X film using a Nikkor Macro lens. An information label is prepared and photographed on the frame preceding each picture. Copying is routinely done on a sunny windowsill indoors, or outdoors in full sunlight.
- C) Color negatives. Color negatives are printed onto black and white photo paper using standard techniques.

Some information is, of course, lost by converting color photos to black and white. For example, the brownish gold color of diatoms is transformed to a less-obvious gray. Nevertheless, close scrutiny will reveal their presence and growth pattern. The use of black and white imagery is simply a practical necessity at this time and one whose slight disadvantages are more than offset by lower cost and ease of processing.

We normally print all negatives on Kodak Polycontrast Resin Coated paper. This paper now features an uncoated back surface so that information can be written in pencil or ballpoint pen. Pre-cut unexposed photopapers are labeled with roll and frame numbers or other data before printing, as this facilitates rapid sorting.

Experienced darkroom personnel are needed to produce the best possible prints from each negative, but the main determinant of print quality is the quality of the negative. No amount of darkroom manipulation can produce a good print from a poorly exposed, blurred, or far-off image.

Perusal of this catalogue will demonstrate a marked improvement in the average quality of recent photographs compared to those obtained in the mid-1970's and before. The underlying reasons include increased experience of photographers; recent improvements in camera equipment; the availability of higher speed color film; and more incentive to get good photographs as their value has become more widely publicized.

Associated with each photograph are the following data, when available: date; time; location or latitude/longitude; photographer's name; roll and frame numbers; catalogue number of humpback whales nearby and/or in close association (the latter are called "companions"); and comments. The ability to identify neighbor or companion animals and to associate photographs of dorsal fins, flippers, or other features with a particular fluke photograph is entirely dependent on the possession of accurate field notes by the photographer. Nothing can substitute for a careful frame-by-frame record of data made at the time the whales were photographed. Since there is great scope for error in the excitement of the field encounter, every means to avoid confusion must be employed. A label with roll number, time, and place should be photographed as a header for each film. New labels can be prepared and photographed at appropriate times to note changes. Individual whales can be separated by blank frames (hand over lens), white frames (point camera at sun), or photos of buoys, birds, the fingers of an outstretched hand, etc., each noted in the data record. Quick sketches or descriptions of the animals (e.g. Blackie, Whitey, Flopfin, Spotter) can also help in keying field notes (written or transcribed from tape) to photos. It is not possible to re-create these data accurately from memory, and the value of recording the information at the time cannot be overstressed. With experience it is sometimes possible to recognize individual animals at sea (e.g. Perkins and Whitehead, 1977) but identification should always be confirmed with photographs.

### 3. COMPARING PHOTOGRAPHS

The best print of each fluke photograph is compared with all previously obtained photographs. If it is clearly another view of a previously identified animal, it is assigned and marked with the same catalogue number, filed in the same envelope, and the new data are entered on a list of resighted animals and on the main computer file of photographs in the collection. If the photo is better than the existing catalogue photograph, it becomes the new catalogue photo and all files and records are adjusted to note the change. If two photos show complementary information and neither one alone would be sufficient, both are used in the catalogue as, for example, 0025A and 0025B. If the new photo does not match any of the existing catalogued animals, it is given a new catalogue number and entered into the catalogue as a new animal. Future photos will then be checked against that new animal as well as all previous whales.

The most important factor in the comparison, given the best possible prints, is the person doing the photo-matching. In our experience, some people are better at this process than others. All of the comparisons made during the assembly of this catalogue have been made by the four editors, and usually they have been checked by several of us. We are reasonably skilled at the process as a result of experience over a period of years on this or other similar photo-identification projects. In particular, all photographs listed as significant resightings (Table 1) have been double-checked and we are certain of their identifications. Nevertheless, we are confident that among the various errors which probably still reside in this catalogue (see Discussion), some are errors in matching for which we are responsible.



# RESULTS

The results of this project as of May, 1980, are the 1039 photographs displayed and indexed in this catalogue plus the list of 120 animals which have been resighted in different geographic areas or in the same area after an interval of longer than one month. The characteristics of the collection are itemized below, including some preliminary conclusions suggested by the resighting data.

1. The catalogue itself now contains 1010 different whales photographed by nearly 100 people.
2. The geographic distribution of the catalogued photographs is shown in Figure 1. A list of all resightings after intervals of longer than one month is shown in Table 1. Table 1 also includes all animals resighted in different geographic areas. Table 2 shows the geographic distribution of all resightings made after intervals of one year or longer. These data show a significant amount of population interchange between some regions and a significant lack of interchange between others. In particular, a sufficient number of animals (11) have been photographed in both Labrador and Newfoundland to indicate that the whales of those regions probably comprise one population. Similarly, although the catalogue includes only 3 photographs of whales from Nova Scotia (0010, 0024, and 0184), all were resighted in U. S. waters of the Gulf of Maine, so we postulate that those areas comprise one population.  
In contrast, and despite the large number of photographs involved, no animal photographed in Newfoundland or Labrador (total, 758) has yet been re-photographed in the Gulf of Maine-Nova Scotia region (total, 113) and vice versa. This result strongly suggests that the whales inhabiting those two regions ought to be viewed as two separate populations at this time.
3. Individual humpbacks which have been resighted in different geographic areas (Figure 2) support the idea that this species migrates between southern wintering grounds in the circum-Caribbean region and northern summering grounds. These results document individual migrations between Silver Bank and both Newfoundland and the Gulf of Maine. However, the Puerto Rico region appears to supply whales mainly to Newfoundland and Labrador.
4. Many individual humpbacks have been resighted within their summering grounds over a period of years. Table 3 shows the maximal intervals between resighting of animals in the different geographic regions. Each whale is entered in this table only once, even if it has been resighted during several years, as shown in Table 1. Tables 4 and 5 present a more detailed resighting history of animals within the Nova Scotia-Gulf of Maine and the Newfoundland regions, respectively.

These data show that individuals return to their summering/feeding areas relatively reliably over a period of many years, some whales being present in the same place and

on the same date in several successive years (see numbers 0074, 0075, 0156, and 1037, for examples). Of the 30 whales which have been photographed during more than one year in the Nova Scotia-Gulf of Maine region (Table 4), 3 have been seen during 4 different years; 5 have been seen during 3 different years; and 23 have been seen during 2 different years. No whales have yet been photographed during more than two seasons in Newfoundland-Labrador, probably owing to the large population size and the short time that intensive sampling has been done. Table 5 contains 52 whales that have been photographed in that region during two (not necessarily consecutive) summers.

5. Figures 3 and 4 chart the gross local movements of identified individuals within their summer feeding grounds, and it is clear that they can show considerable movement within those areas. However, the fact that many animals have been photographed at the same location in succeeding years suggests that particular individuals may prefer certain areas within the overall region. These results reinforce the idea that the two summering regions, Newfoundland-Labrador and the Gulf of Maine-Nova Scotia, are inhabited by what appear to be distinct populations, each of which ranges throughout much of its region but does not visit the other region. Nevertheless, it is still possible that some animals continue northward to another destination from which no photographs have been obtained.
6. The resighting of whale number 0075 near Tadoussac, Quebec, after 7 years opens the possibility that the inner Gulf of St. Lawrence might be inhabited by a small, distinct subpopulation. Only three whales from that region are included in the photo collection. The probability that one of those animals would be resighted after 7 years would be rather small unless it was a member of a small group that frequented the area year after year.
7. The following whales are known to be females, having been seen swimming with their calves (catalogue number and/or birth year of calf are shown, when known).

<u>Female</u>	<u>Calf</u>
0036 "Salt"	new calf in 1980
0080	had calf in 1977
0153 "Silver"	new calf in 1980
0156 "Snowflake"	calf No. 0180, in 1979
0159	calf No. 0179 in 1979
0168 "Falco"	new calf in 1980
1580	calf No. 1977 in 1979
2062	calf No. 2033 in 1979
2072	new calf in 1978
2093	calf No. 2012 in 1979
6009	new calf in 1979



## DISCUSSION

The results listed above have confirmed the value of using natural fluke markings for individual identification of humpback whales. Through the use of this technique information on migrations, stock distinctness, reproduction, and social behavior is beginning to accumulate. The value of this information will be directly related to the duration, continuity, and geographic scope of the field effort. Some future directions which this work could take are discussed below.

Perhaps the most novel result to date of this project is the indication that Newfoundland-Labrador is populated by a different group of whales than visit Gulf of Maine-southern Nova Scotia waters. On the other hand, representatives of both populations have been photographed on the same general wintering range and also at Bermuda. How do the whales maintain regional fidelity in summer? Would finer scale surveying of the circum-Caribbean region reveal spatial (or temporal) separation of the two populations? Or, in contrast, is there simply a strong tendency for whales to summer where their mothers led them during their first year, even though all animals mix on the wintering grounds? Further work may clarify this question, but for the present, evidence indicates that those two summering grounds should be treated as separate substock units.

One of the shortcomings of this collection is that we have not been able to obtain any fluke photographs from Greenland, Iceland, or from the lower Antillean region. Without those data it will not be possible to evaluate adequately the three-stock hypothesis of Winn and Scott (1977 and 1979) which names three supposedly separate populations, "upper," "middle," and "lower," based on the geographic position of their suspected breeding grounds in the Caribbean chain of banks and islands. The upper stock supposedly breeds on Navidad, Silver, and Mouchoir Banks north of Haiti and the Dominican Republic, then migrates north through the Bahamian region and along the east coast of North America to feed from Cape Cod to Labrador. The middle stock is visualized as breeding between Mona Passage and the island of Dominica, then migrating north past Bermuda in March and April, and on to Greenland. The lower stock is thought to breed from Venezuela to Martinique, then to migrate north through the open ocean to feeding grounds in Iceland and Greenland. It is clear from Figure 1 that this photo collection does not adequately cover either the breeding or feeding areas supposedly inhabited by the "middle" and "lower" stocks of whales. On the other hand, the description of the range of the "upper" stock does not account for some of the resighting data charted in Figure 2. In particular, although Silver Bank does supply animals to the U. S. east coast and also to Newfoundland-Labrador, not all of those animals migrate north along a coastal route; some migrate via Bermuda. Thus, whales seen in Bermuda cannot be said to be only from a "middle" stock. Furthermore, the Winn and Scott model should be modified to include the clear division between U. S.-Nova Scotia animals and Newfoundland-Labrador animals. On the other hand, the fact that animals from the Puerto Rico area have only been found in Newfoundland-Labrador, whereas all long-distance matches to the U. S. east coast are linked to Silver Bank, does suggest that there may be some type of stock separation in the breeding range as Winn and Scott predict. The model proposed by Winn and Scott deserves more detailed study by all possible methods and one clear priority must be the collection of fluke photos from the proposed "middle" and "lower" stock range.

The photo collection assembled here is only meant to present the broad picture of the migrations of humpback whales through the western North Atlantic Ocean. The whales undoubtedly show finer-scale temporal or spatial patterns of utilization of the various regions than these data indicate. More detailed descriptions of whale movements in particular locations are being prepared and published separately by the scientists working in those places, for example Whitehead *et al* (1980).

As the collection of photos and resightings grows, information about the repro-

ductive and social behavior of individual whales will also increase. For example, one female has been seen with calves at a three year interval (G. Nichols and K. Balcomb, ORES, Boston, MA., personal communication, an animal recognized by its notched dorsal fin). Also, some identified animals have been photographed together in feeding or breeding activities, occasionally during more than one year. Finally, recent work by several scientists studying in the wintering grounds shows some promise for identifying male animals on the basis of their courtship behavior (H. Whitehead, personal communication). Thus some progress is being made toward assembling portions of a social history for some individuals which will shed light on the biology of the species.

One of the interesting phenomena we have noted in comparing photos is the small (if any) amount of change in fluke patterns of an individual over time. Even in animals which have been re-photographed after up to 7 years little change in fluke pattern has been found. Diatom patches have also been relatively constant, although some change in size has been observed on some individuals. This constancy is, of course, convenient because it permits us to identify an animal for a long time. However, it raises an interesting question, namely, why don't the markings change more rapidly? There is undoubtedly some genetic component to the pattern which must confer a certain amount of stability. However, superimposed on that background is an accumulation of scars from various encounters with living and non-living objects, and this secondary or "experiential" pattern changes less rapidly than one might expect. Two possible explanations come to mind. One hypothesis might be that there is a period of particular sensitivity to scarring early in the life of a whale during which most of the scars we see are accumulated. An alternative, and perhaps more likely, hypothesis is that scars accumulate steadily throughout the life of a whale, but that the normal lifetime is long and our photos cover only a short portion of that span. We are beginning a detailed study of changes in markings which may help to resolve this question.

Study of the markings themselves raises many fascinating questions which merit further research. For example, why do so many animals bear scars from the teeth of killer whales? At least 252 of the Newfoundland-Labrador animals (33%) and 19 of the Gulf of Maine animals (17%) carry such scars. Some animals, such as Number 1932, bear an extraordinary array of toothmarks. Where are all the killer whales? Why, when, and where do these interactions take place? If the interactions are attacks, how do so many humpback whales escape? Another interesting subject for scrutiny is the distribution and frequency of diatom growths. Why are they only present on some whales? Is their presence related to age, geographical area, or other factors? Do diatoms occur on dark-fluked animals? Other similarly intriguing questions will surely develop as the markings receive more detailed attention. Finally, one wonders whether the whales themselves make use of their distinctive patterns for individual recognition or possibly some other function.

In the beginning of this project it was relatively easy to distinguish different whales, because there were fewer photos to compare. As material has accumulated, a more continuous spectrum of patterns has emerged, making photo comparisons both more time-consuming and more difficult, and increasing our need for high-resolution photos. Nevertheless, with adequate care and reasonably good photos, we have been able to identify whales as new animals or previously-known individuals with good confidence.

Despite our best attention, this catalogue undoubtedly contains errors. It is possible that two different photos of the same whale have been included with different catalogue numbers. This could happen if one or both of the photos are not of optimal quality. It is conceivable that a printing error caused a fluke to be left-right reversed, so that the catalogue might rarely contain mirror image photos of the same animal. That error would be difficult to detect. Also difficult to correct are errors involving photos of portions of a fluke. It is conceivable that a left fluke tip and a right fluke tip might actually belong to the same whale,



even though they received separate catalogue numbers. In order to avoid such problems we made an effort to eliminate poor photos and to minimize the use of photos of parts of flukes. However, we were more hesitant to eliminate such photos from regions with relatively sparse representation in the catalogue. Furthermore, we suspect that some fluke photos which appear to lack resolution or contrast are actually pictures of very young animals. The pigmentation is not clearly visible on a calf's flukes. The pattern usually appears dark or murky. Also, calves do not raise their flukes as frequently or as high as do adults, so good photos are more difficult to obtain. Workers in Hawaii have been able to photograph humpbacks underwater and to document the development of fluke patterns in young calves (D. Glockner, personal communication). In time we anticipate that better photos will replace those of marginal quality. We believe that other types of errors such as mistakes in photo-matching or faulty photographic data (wrong location or date, etc.) are rare. In any case we solicit and welcome any corrections or suggestions from users of the catalogue.

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**TABLE 1. SIGNIFICANT RESIGHTINGS OF INDIVIDUALLY IDENTIFIED HUMPBACK WHALES FROM THE WESTERN NORTH ATLANTIC OCEAN, 1972-MAY 1980.**

CAT. #	DATE	PLACE	PHOTOGRAPHER	COMMENTS
0004	26-29 Jul 76	Mt.Desert Rock	S.Katona	
	summer 78	Jeffreys Ledge	P.Hodgdon	
	27 Apr 79	N tip Stellwagen Bank	M.Williamson	
	27 May 79	N of Boston 5-10 mi offshore	D.DelDonno	
	04 Jul 79	N tip Stellwagen Bank	C.Mayo	"Trunk"
0006	20-29 Jul 76	Mt.Desert Rock	B.Baxter	
	06 Sep 76	Mt.Desert Rock	B.Baxter	
0010	01 Oct 74	Brier Is., Nova Scotia	A.Davidson	
	26 Jul 76	Mt.Desert Rock	B.Baxter	
0015	18 Jun 75	Trinity Bay, Nfld.	P.Beamish	
	02 Jul 78	off Council Cove, Nfld.	H.Whitehead	
0016	15 Jul 76	Mt.Desert Rock	B.Baxter	Seen Jun 23-Jul 19
	22 Jul 77	Wooden Ball Is., ME	S.Katona	
0021	02 Aug 76	Cape Bonavista Ledge, Nfld.	J.Perkins/ H.Whitehead	
	15 Jul 78	Bay de Verde, Nfld.	H.Whitehead	
0024	23 Jul 76	Jeffreys Ledge	S.Katona	
	Sep 76	Brier Is., Nova Scotia	J.Hain	Dead
0027	28-29 Jul 76	Mt.Desert Rock	B.Baxter	
	21 May 77	Old Scantums Ledge	S.Katona/B.Wellman	
	28 Oct 77	Stellwagen Bank	O.Brazier	
0035	23 Jul 76	Jeffreys Ledge	S.Katona	
	30 Oct 76	Jeffreys Ledge	S.Katona	
0036	01 May 76	off Provincetown, MA	F.Gardner(S.Katona)	
	08 May 77	Cape Cod Bay	P.Thomas	
	04 Jun 77	6 mi NNE Provincetown, MA	F.Gardner	Breaching
	summer 77	Provincetown, MA	S.Whiting	
	30 Aug 77	Stellwagen Bank	P.Cohen	
	01 Jan 78	Silver Bank	H.Whitehead	
	09 Jul 79	Stellwagen Bank, 41°41', 69°30'	K.Powers	
	25 Jul 79	Stellwagen Bank	M.Williamson	
0045	15 Apr 76	Bermuda	O.Brazier	
	18 Jul 79	Salvage, Nfld.	J.Lien	
0047	14 Sep 76	Jeffreys Ledge	O.Brazier	
	30 Aug 79	Ipswich Bay, MA	S.Mercer	
0054	15 Apr 76	Bermuda	O.Brazier	
	27-29 Jul 76	Mt.Desert Rock	B.Baxter	Also seen Aug 2
	11 Jun 78	Jeffreys Ledge	A.Busch/P.Vickery	
	10 Apr 79	Silver Bank	S.Whiting	

CAT. #	DATE	PLACE	PHOTOGRAPHER	COMMENTS
0061	24 Apr 76	Bermuda	O.Brazier	
	24 Aug 79	Stony Is., Labrador	H.Whitehead	
0062	20 Sep 76	Jeffreys Ledge	O.Brazier	
	10 May 79	Jeffreys Ledge	S.Kraus	
	17 May 79	New Scantums Ledge	S.Katona	
0063	29 Jul 76	Mt.Desert Rock	S.Katona	
	20 Oct 78	Jeffreys Ledge	S.Kraus	
0064	23 Jul 76	Jeffreys Ledge	S.Katona	
	22 Jul 77	Wooden Ball Is., ME	S.Katona	
	24 Jul 79	4-5 mi ENE Cape Ann, MA 40°26'N, 70°30'W	D.Arnold	
0069	10 Sep 76	Jeffreys Ledge	O.Brazier	
	08 Mar 78	Silver Bank, Sta 7	B.Baxter	
	summer 78	Jeffreys Ledge	P.Hodgdon	
0072	15 Jul 76	Mt.Desert Rock	B.Baxter	seen Jul 9-29
	22 Jul 77	Wooden Ball Is., ME	S.Katona	
	25 Apr 79	Stellwagen Bank	W.Watkins/K.Moore	
	15 Aug 79	Halibut Pt, MA	S.Mercer	
0074	01 May 76	Provincetown, MA	F.Gardner	"Pepper"
	30 Apr 77	Provincetown, MA		
	30 Aug 77	Stellwagen Bank	P.Cohen	with 0036
	22 May 80	Stellwagen Bank	P.Turnbull	
0075	15 Aug 72	Tadoussac, Quebec	P.Beamish	
	06 Aug 79	Les Escoumins, Quebec	G.Iles/E.Henry	
0077	06 Jul 76	Renews, Nfld.	J.Perkins	
	16 Jul 79	E of Wall, Bay de Verde, Nfld.	H.Whitehead	
0078	02 Aug 76	Cape Bonavista, Nfld.	J.Perkins/H.Whitehead	
	25 Aug 76	Funk Is., Nfld.	J.Perkins/H.Whitehead	
0080	20 Sep 76	Jeffreys Ledge	O.Brazier	"Istar"
	22-23 Aug 78	NW tip Stellwagen Bank	T.Leland	
	26 Aug 79	Provincetown, MA	R.Bradbury	
	summer 79	Stellwagen Bank	C.Mayo	
	18 May 80	Jeffreys Ledge	J.M.Gibbs	
	14 Jun 80	Stellwagen Bank	W.Barton/J.Winchester	
0085	25 Sep 76	Jeffreys Ledge	C.Brazier	
	22 Aug 79	Halibut Pt., Cape Ann, MA	S.Mercer	
0089	18 Jul 76	Baccalieu Is.	J.Perkins/H.Whitehead	
	21 Jul 79	off Bay de Verde, Nfld.	J.Perkins/H.Whitehead	
0093	23 Jul 76	Jeffreys Ledge	S.Katona	
	17 Aug 79	Ipswich Bay, MA	S.Mercer	
0101	10-29 Jul 76	Mt.Desert Rock	S.Katona/B.Baxter	
	18 May 80	Jeffreys Ledge	J.M.Gibbs	
0102	14 Sep 76	Jeffreys Ledge	O.Brazier	
	summer 79	Stellwagen Bank	C.Mayo	"Blackie"



CAT. #	DATE	PLACE	PHOTOGRAPHER	COMMENTS
0105	summer 76 11 Sep 79	Cape Race, Nfld. Trinity Bay, Nfld.	T.Dubourg P.Beamish	
0113	22 Aug 74 Sep 74	Williamsport, Nfld. S of Valleyfield, Nfld.	P.Beamish W.Leapley/C.Levinson	
0125	01 May 77 Jun 77	3 mi W of Jeremy Pt., MA Cape Cod Bay	F.Gardner S.Whiting/P.Harrington	
0128	22 Jul 77 20 May 78	Wooden Ball Is., ME Old Scantums Ledge	S.Katona F.Gardner	
0129	06 Jul 77 29 Aug 77	Mt.Desert Rock 13 mi W of Scituate, MA	S.Katona F.Gardner	
0130	Jun 77 28 Oct 77	Cape Cod Bay Stellwagen Bank	S.Whiting/P.Harrington O.Brazier	
0131	28 Oct 77 10 May 79	Stellwagen Bank Jeffreys Ledge	O.Brazier S.Kraus	
0137	03 Jun 78 17 Aug 78	off Provincetown, MA NW tip Stellwagen Bank	D.Larsen T.Leland	
0140	26 Aug 78 30 Sep 78 summer 79	N of Stellwagen Bank Stellwagen Bank, 42°34.5', 70°36.5' Stellwagen Bank	T.Leland M.Williamson C.Mayo	"Square"
0144	28 Oct 77 27 Apr 79 21 Jul 79 25 Jul 79	Stellwagen Bank N tip Stellwagen Bank Stellwagen Bank, 42°29', 70°22' W tip Stellwagen Bank	O.Brazier M.Williamson G.Nichols M.Williamson	
0148	summer 79 11 Jun 80	Stellwagen Bank Stellwagen Bank	C.Mayo W.Barton/J.Winchester	"Scratch"
0149	30 May 79 28 Oct 79 10 May 80 16 May 80 22 May 80	Stellwagen Bank off Provincetown, MA Stellwagen Bank Stellwagen Bank Stellwagen Bank	W.Watkins/K.Moore R.Bradbury P.Turnbull P.Turnbull W.Barton/J.Winchester	"Agassiz"
0150	23 May 79 31 May 79 27 Jun 79 summer 79	NW Stellwagen Bank SW tip Stellwagen Bank Stellwagen Bank Stellwagen Bank	G.Pitman R.Sears M.Williamson C.Mayo	"Bilbo"
0151	11 Jun 78 09 May 79 12 May 79 23 May 79 summer 79 summer 79	off Provincetown, MA Stellwagen Bank Stellwagen Bank NW Stellwagen Bank Stellwagen Bank Stellwagen Bank	F.Gardner W.Watkins/K.Moore R.Burton G.Pitman C.Mayo M.Williamson	"Peter"
0153	23 May 79 27 May 79 02 Jun 79	Stellwagen Bank N tip Stellwagen Bank Stellwagen Bank	W.Watkins/K.Moore M.Williamson B.Wellman/M.Williamson	"Half fluke"

CAT. #	DATE	PLACE	PHOTOGRAPHER	COMMENTS
	09 Jun 79	SW tip Stellwagen Bank	R. Sears	
	26 Aug 79	off Provincetown, MA	R. Bradbury	
	summer 79	Stellwagen Bank	C. Mayo	"Silver"
0154	24 Jun 79	Stellwagen Bank	M. Buzzato	"Bislash"
	17 May 80	Stellwagen Bank	R. Ohde	
	Jun 80	Stellwagen Bank	W. Barton/J. Winchester	
0156	21 Oct 78	Jeffreys Ledge	T. Keyser	no calf
	08 Aug 79	2 mi E of E Quoddy Hd, Campobello Is., N.B.	S. Savage	w/calf #0180 called mother "Snowflake"
	17 Aug 79	W Quoddy Hd, ME	S. Katona	
	21 Aug 79	W Quoddy Hd, ME	P. Turnbull	
	08 Aug 80	Herring Cove, Campobello Is., N.B.	S. Katona	
0163	summer 79	Stellwagen Bank	C. Mayo	"Sod"
	14 Jun 80	Stellwagen Bank	W. Barton/J. Winchester	
0164	summer 79	Stellwagen Bank	C. Mayo	"Stub"
	17 Oct 79	42°10.1'N, 70°20.8'W	CETAP	
	23 May 80	Stellwagen Bank	W. Barton/J. Winchester	
	10 Jun 80	Stellwagen Bank	W. Barton/J. Winchester	
0168	14 Sep 76	Jeffreys Ledge	O. Brazier	
	09 Jun 79	SW Stellwagen Bank	R. Sears	with 0153
	27 Jun 79	Stellwagen Bank	M. Williamson	"Falco"
	summer 79	Stellwagen Bank	C. Mayo	
	22 May 80	Stellwagen Bank	W. Barton/J. Winchester	with calf "Epaulet"
0184	03 Apr 80	Liverpool Bay, N.S.	P. Brodie	caught in nets
	06 May 80	Cape Cod Bay	M. Weinrich	
0185	03 May 80	10-15 mi S of Lynn, MA	C. Harward	
	late Jun 80	Stellwagen Bank	W. Barton/J. Winchester	
1004	07 Jul 78	Split Pt, Nfld.	H. Whitehead	
	6-9 Aug 79	Salvage, Nfld.	J. Lien	
1006	07 Jul 78	Baccalieu Tickle, Nfld.	H. Whitehead	
	10 Jul 79	off S Baccalieu, Nfld.	H. Whitehead	
1013	08 Jul 78	near Split Pt, Nfld.	H. Whitehead	
	11 Sep 79	off Trinity, Nfld.	P. Beamish	
1021	07 Sep 78	Baccalieu Tickle, Nfld.	H. Whitehead	
	29 Jun 79	S Baccalieu, Nfld.	H. Whitehead	
1022	29 Jun 79	NE of Baccalieu, Nfld.	H. Whitehead	
	03 Sep 79	off Greenspond, Nfld.	H. Whitehead	
1023	09 Jul 78	S Baccalieu Tickle, Nfld.	H. Whitehead	
	29 Jun 79	Split Pt, Nfld.	H. Whitehead	
	08 Aug 79	Salvage, Nfld.	J. Lien	



CAT. #	DATE	PLACE	PHOTOGRAPHER	COMMENTS
1024	07 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	seen July 9-22
	08 Jul 79	off Lunin, Nfld.	H.Whitehead	
1025	20 Jun 78	Bay de Verde Head, Nfld.	H.Whitehead	
	17 Jun 79	The Wall & S Baccalieu, Nfld.	H.Whitehead	
1030	11 Jul 78	Baccalieu Tickle, Split Pt, Nfld.	H.Whitehead	
	21 Jul 79	SE Split Pt, Nfld.	H.Whitehead	
1037	14 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	
	18 Jul 79	E of Baccalieu, Nfld.	H.Whitehead	
1058	15 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	
	03 Mar 79	Puerto Rico	D.Matilla/N.Ward	
1072	20 Jul 78	Deep Channel, Baccalieu Tickle, Nfld.	H.Whitehead	
	14 Jul 79	E of N Baccalieu, Nfld.	H.Whitehead	
1078	16 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	
	29 Jun 79	S Baccalieu, Nfld.	H.Whitehead	
1081	16 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	
	23 Jul 79	W of Baccalieu Tickle, Nfld.	H.Whitehead	
1087	16 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	
	16 Aug 79	Salvage, Nfld.	J.Perkins	
	19 Aug 79	Salvage, Nfld.	J.Lien	
1093	16 Jul 78	Deep Channel, Baccalieu Tickle, Nfld.	H.Whitehead	
	17 Jul 79	off Gannet Cliffs, Nfld.	H.Whitehead	
1097	16 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	
	29 Jun 79	Split Pt., Nfld.	H.Whitehead	
1105	17 Jul 78	Deep Channel, Baccalieu Tickle, Nfld.	H.Whitehead	
	21 Jul 79	S of S Baccalieu, Nfld.	H.Whitehead	
1107	21 Jul 78	off N Baccalieu, Nfld.	H.Whitehead	
	18 Aug 79	Newman Sound, Bonavista Bay. Nfld.	J.Lien	
1111	13 Aug 77	Trinity Bay, Nfld.	J.Perkins/H.Whitehead	
	16 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	
1115	20 Jul 78	Deep Channel, Baccalieu Tickle, Nfld.	H.Whitehead	
	02 Jul 79	Bonavista Head, Nfld.	J.Goodyear	
1119	20 Jul 78	Baccalieu Tickle, Nfld.	H.Whitehead	
	25 Jun 79	Split Pt., Nfld.	H.Whitehead	
1129	27 Jul 78	off Baccalieu, Nfld.	H.Whitehead	
	12 Jul 79	SE of Baccalieu, Nfld.	H.Whitehead	

CAT. #	DATE	PLACE	PHOTOGRAPHER	COMMENTS
1131	27 Jul 78	0.75 mi S of Baccalieu Tickle, Nfld.	H.Whitehead	
	09 Aug 79	Arch Tickle, Bonavista Bay, Nfld.	H.Whitehead	
1138	13 Aug 77	Trinity Bay, Nfld.	J.Perkins/H.Whitehead	
	27 Sep 78	0.75 mi S of Baccalieu Tickle, Nfld.	H.Whitehead	
1149	01 Aug 78	NE of Baccalieu, Nfld.	H.Whitehead	
	31 Jul 79	S Baccalieu Tickle, Nfld.	H.Whitehead	
1157	06 Aug 78	off Old Perlican, Nfld.	H.Whitehead	
	11 Aug 79	off Greenspond, Nfld.	H.Whitehead	
1168	09 Aug 78	Bay de Verde Head, Nfld.	H.Whitehead	
	14 Jul 79	NE of Baccalieu, Nfld.	H.Whitehead	
	16 Aug 79	Salvage, Nfld.	J.Perkins	
1170	09 Aug 78	Split Pt, Bay de Verde Head, Nfld.	H.Whitehead	
	09 Aug 79	off Breakheart Pt, Nfld.	M.Moore	
1174	09 Aug 78	SE of Bay de Verde Head, Nfld.	H.Whitehead	
	08 Aug 79	Salvage, Nfld.	J.Lien	
1175	09 Aug 78	Backside, Bay de Verde Head, Nfld.	H.Whitehead	
	21 Jul 79	off Split Pt, Nfld.	H.Whitehead	
1176	09 Aug 78	Backside, Bay de Verde Head, Nfld.	H.Whitehead	
	07 Aug 79	E of Baccalieu, Nfld.	H.Whitehead	
1192	30 Jun 78	Split Pt, Nfld.	H.Whitehead	
	18 Jun 79	The Wall, Bay de Verde, Nfld.	H.Whitehead	
1196	30 Jun 78	Split Pt, Nfld.	H.Whitehead	
	12 Jul 79	NE of Baccalieu, Nfld.	H.Whitehead	
1221	07 Jul 78	Bay de Verde Head, Nfld.	H.Whitehead	
	29 Jun 79	Red Head, Nfld.	H.Whitehead	
1223	05 Jul 78	Near Bay de Verde Head, Nfld.	H.Whitehead	
	Aug 79	Salvage, Nfld.	J.Lien	
1231	05 Jul 78	off Capelin Cove, Nfld.	H.Whitehead	
	Aug 79	Bonavista Bay, Nfld.	M.Rosen	
1300	13 Aug 78	off Black Head, Nfld.	H.Whitehead	
	23 Jul 79	S Baccalieu Tickle, Nfld.	H.Whitehead	
1301	13 Aug 78	Black Hd, near Cape St.Francis, Nfld.	H.Whitehead	
	14 Jul 79	NE Baccalieu, Nfld.	H.Whitehead	



CAT. #	DATE	PLACE	PHOTOGRAPHER	COMMENTS
1331	21 Aug 78	Moreton's Harbor, Nfld.	H.Whitehead	
	01 Jul 79	Low Pt, Nfld.	H.Whitehead	
1334	21 Aug 78	Moreton's Harbor, Nfld.	H.Whitehead	
	24 Jun 79	Backside, Bay de Verde Head, Nfld.	H.Whitehead	
	08 Aug 79	Salvage, Nfld.	H.Whitehead	
1346	21 Aug 78	off Western Hd, Nfld.	H.Whitehead	
	24 Aug 79	off Square Is, Labrador	H.Whitehead	
1354	26 Aug 78	off Englee, Nfld.	H.Whitehead	
	24 Aug 79	off Cape Bluff, Labrador	H.Whitehead	
1358	05 Jul 77	Trinity Bay, Nfld.	J.Perkins/H.Whitehead	
	31 Aug 78	off Occasional Harbor, Labrador	H.Whitehead	
1359	26 Aug 78	off Englee, Nfld.	H.Whitehead	
	24 Aug 79	off St.Michael's Bay, Labrador	H.Whitehead	
1368	01 Sep 78	Venison Tickle, Labrador	H.Whitehead	
	10 Jul 79	off S Baccalieu, Nfld.	H.Whitehead	
1388	02 Sep 78	off Cooper Is, Labrador	H.Whitehead	
	24 Aug 79	off Square Is, Labrador	H.Whitehead	
1390	02 Sep 78	Cape Bluff, Labrador	H.Whitehead	
	19 Aug 79	Salvage, Nfld.	J.Lien	
1396	02 Sep 78	Cape Bluff, Labrador	H.Whitehead	
	28 Jan 79	Puerto Rico	D.Matilla/N.Ward	
1502	16 Jun 79	off Grates, Nfld.	H.Whitehead	
	11 Sep 79	off Trinity, Nfld.	P.Beamish	
1503	20 Jun 79	Deep Channel of Baccalieu Tickle, Nfld.	H.Whitehead	
	08 Aug 79	Salvage, Nfld.	J.Lien	
1505	11 Jun 79	off Backside, Bay de Verde Head, Nfld.	H.Whitehead	
	24 Aug 79	off Cape Bluff, Labrador	H.Whitehead	
1526	22 Jun 79	near Red Head, Nfld.	H.Whitehead	
	23 Jul 79	W of S Baccalieu, Nfld.	H.Whitehead	
1561	23 Jul 79	S Baccalieu Tickle, Nfld.	H.Whitehead	
	08 Aug 79	off Salvage, Nfld.	H.Whitehead	
1574	02 Jul 79	Split Pt, Nfld.	H.Whitehead	
	18 Aug 79	Newman Sound, Bonavista Bay, Nfld.	J.Lien	
1579	21 Jun 79	Trinity Bay, Nfld.	W.Rossiter	
	24 Aug 79	off Stony Is, Labrador	H.Whitehead	

CAT. #	DATE	PLACE	PHOTOGRAPHER	COMMENTS
1602	12 Jul 79 11 Sep 79	N of Baccalieu, Nfld. off Trinity, Nfld.	H.Whitehead P.Beamish	
1603	13 Aug 77 10-12 Jul 79	Trinity Bay, Nfld. N of Baccalieu, Nfld.	J.Perkins/H.Whitehead H.Whitehead	
1611	14 Jul 79 25 Jul 79	E of Baccalieu, Nfld. off Trinity, Nfld.	H.Whitehead J.Tatum	
1619	14 Jul 79 09 Aug 79	2 mi N of Baccalieu, Nfld. off Little Denier, Bonavista Bay, Nfld.	H.Whitehead H.Whitehead	
1644	17 Jul 79 24 Aug 79	E of Baccalieu, Nfld. off Stony Is., Labrador	H.Whitehead H.Whitehead	
1645	17 Jul 79 09 Aug 79	E of Baccalieu, Nfld. off Arch Tickle, Bonavista Bay, Nfld.	H.Whitehead H.Whitehead	"Harold"
1654	17 Jul 79 08 Aug 79	NE of Baccalieu, Nfld. off Salvage, Nfld.	H.Whitehead H.Whitehead	
1659	21 Jul 79 08 Aug 79	off Bay de Verde Head, Nfld. Salvage, Nfld.	H.Whitehead J.Lien	
1664	21 Jul 79 09 Aug 79	off Bay de Verde Head, Nfld. near Salvage, Nfld.	H.Whitehead H.Whitehead	
1674	07 Jan 78 17 Jul 79 09 Aug 79	Silver Bank E of Baccalieu Is., Nfld. Salvage, Nfld.	B.Baxter H.Whitehead H.Whitehead	
1684	19 Jul 79 24 Aug 79	Salvage, Nfld. off Cape St. Michael, Labrador	J.Lien H.Whitehead	
1685	21 Jul 79 24 Aug 79	S of SBaccalieu, Nfld. off Square Is., Labrador	H.Whitehead H.Whitehead	
1900	14 Aug 78 09 Aug 79	off Trinity, Nfld. near Salvage, Nfld.	H.Whitehead H.Whitehead	
1909	05 Jul 77 24 Aug 79	Trinity Bay, Nfld. Cape St. Michael, Labrador	P.Cohen H.Whitehead	
1923	18 Jul 79 08 Aug 79	St. Vincent's, Nfld. Salvage, Nfld.	J.Lien J.Lien	
2050	78 08 Aug 78	Puerto Rico Salvage, Nfld.	D.Matilla/N.Ward J.Lien	
2058	08 Feb 79 08 Aug 79	Puerto Rico 18°30'48"N, 67°09'50"W Salvage, Nfld.	D.Matilla/N.Ward J.Lien	



**TABLE 2.** SIGNIFICANT RESIGHTINGS OF PHOTO-IDENTIFIED HUMPBACK WHALES (YEAR TO YEAR OR BETWEEN REGIONS).

	Total Photos	Labrador	Newfoundland	Gulf of St. Lawrence	Nova Scotia-Gulf of Maine	Bermuda	Silver-Navidad-Mouchoir Banks	Puerto Rico	Virgin Islands	Anegada-Grenada
Labrador	106	1								
Newfoundland	652	11	45							
Gulf of St. Lawrence	2	0	0	1						
Nova Scotia-Gulf of Maine	113	0	0	0	30					
Bermuda	32	1	1	0	1	0				
Silver-Navidad-Mouchoir Banks	61	0	1	0	2	0	0			
Puerto Rico	44	1	3	0	0	0	0	0		
Virgin Islands	1	0	0	0	0	0	0	0	0	
Anegada-Grenada	1	0	0	0	0	0	0	0	0	0
	1010									

**TABLE 3.** LONGTERM RETURNS OF INDIVIDUALLY-IDENTIFIED HUMPBACK WHALES TO THE GEOGRAPHIC REGIONS WHERE THEY WERE FIRST PHOTOGRAPHED.

	<u>Labrador</u>	<u>Newfoundland</u>	<u>Labrador to Newfoundland</u>	<u>Gulf of St. Lawrence</u>	<u>Gulf of Maine Region</u>
1-11 months	-	17	5	-	11
1 year	3	42	3	-	8
2 years	-	-	1	-	5
3 years	-	3	-	-	11
4 years	-	-	-	-	3
5 years	-	-	-	-	-
6 years	-	-	-	-	-
7 years	-	-	-	1	-

TABLE 4.

YEAR BY YEAR RETURNS OF INDIVIDUALLY IDENTIFIED HUMPBACK  
WHALES TO THE NOVA SCOTIA-GULF OF MAINE REGION.

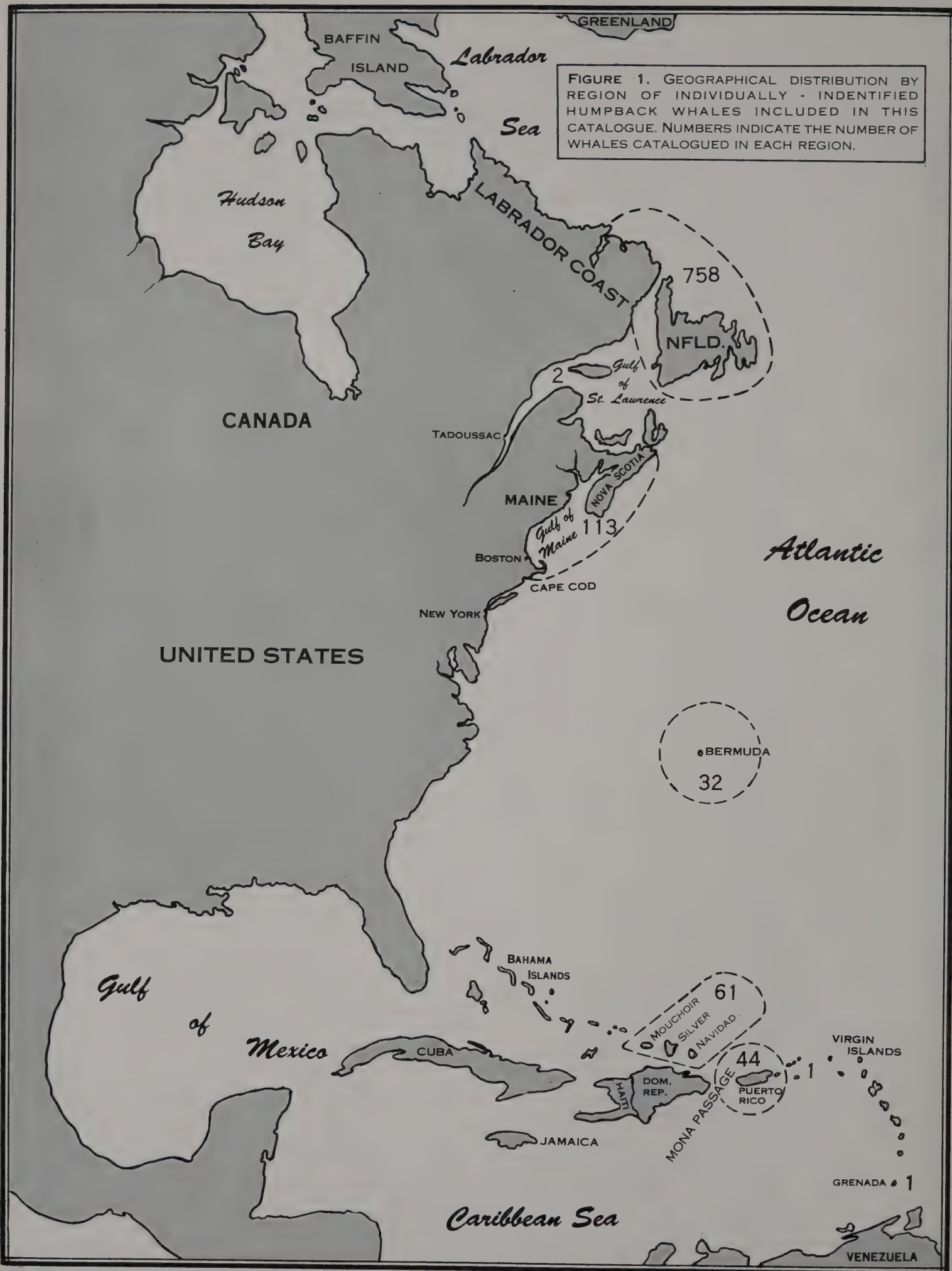
	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
0004			X		X	X	
0010	X		X				
0016			X	X			
0027			X	X			
0036			X	X	X	X	
0047			X			X	
0054			X		X		
0062			X			X	
0063			X		X		
0064			X	X		X	
0069			X		X		
0072			X	X		X	
0074			X	X		X	X
0080			X	X		X	X
0085			X			X	
0093			X			X	
0101			X				X
0102			X			X	
0128				X	X		
0131				X		X	
0140					X	X	
0144				X		X	
0148						X	X
0149						X	X
0151					X	X	
0154						X	X
0156					X	X	X
0163						X	X
0164						X	X
0168			X			X	X



TABLE 5.

YEAR BY YEAR RETURNS OF INDIVIDUALLY IDENTIFIED HUMPBACK WHALES TO THE NEWFOUNDLAND-LABRADOR REGION.

	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
0015	X			X		
0021		X		X		
0077		X			X	
0089		X			X	
0105		X			X	
1004				X	X	
1006				X	X	
1013				X	X	
1021				X	X	
1023				X	X	
1024				X	X	
1025				X	X	
1030				X	X	
1037				X	X	
1072				X	X	
1078				X	X	
1081				X	X	
1087				X	X	
1093				X	X	
1097				X	X	
1105				X	X	
1107				X	X	
1111			X	X		
1115				X	X	
1119				X	X	
1129				X	X	
1131				X	X	
1138			X	X		
1149				X	X	
1157				X	X	
1168				X	X	
1170				X	X	
1174				X	X	
1175				X	X	
1176				X	X	
1192				X	X	
1196				X	X	
1221				X	X	
1223				X	X	
1231				X	X	
1300				X	X	
1301				X	X	
1331				X	X	
1334				X	X	
1346				X	X	
1354				X	X	
1358			X	X		
1359				X	X	
1368				X	X	
1388				X	X	
1390				X	X	
1603			X		X	



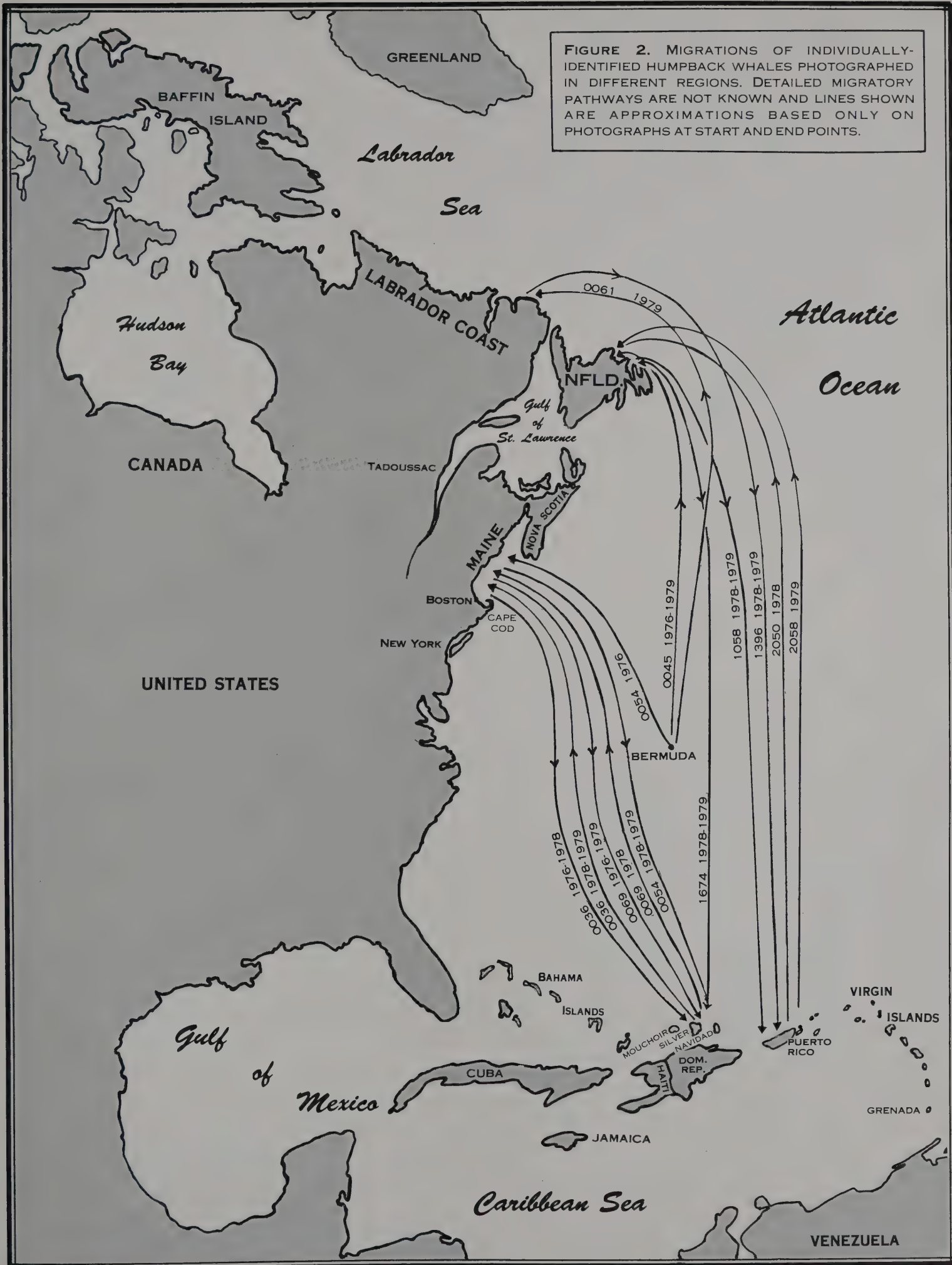


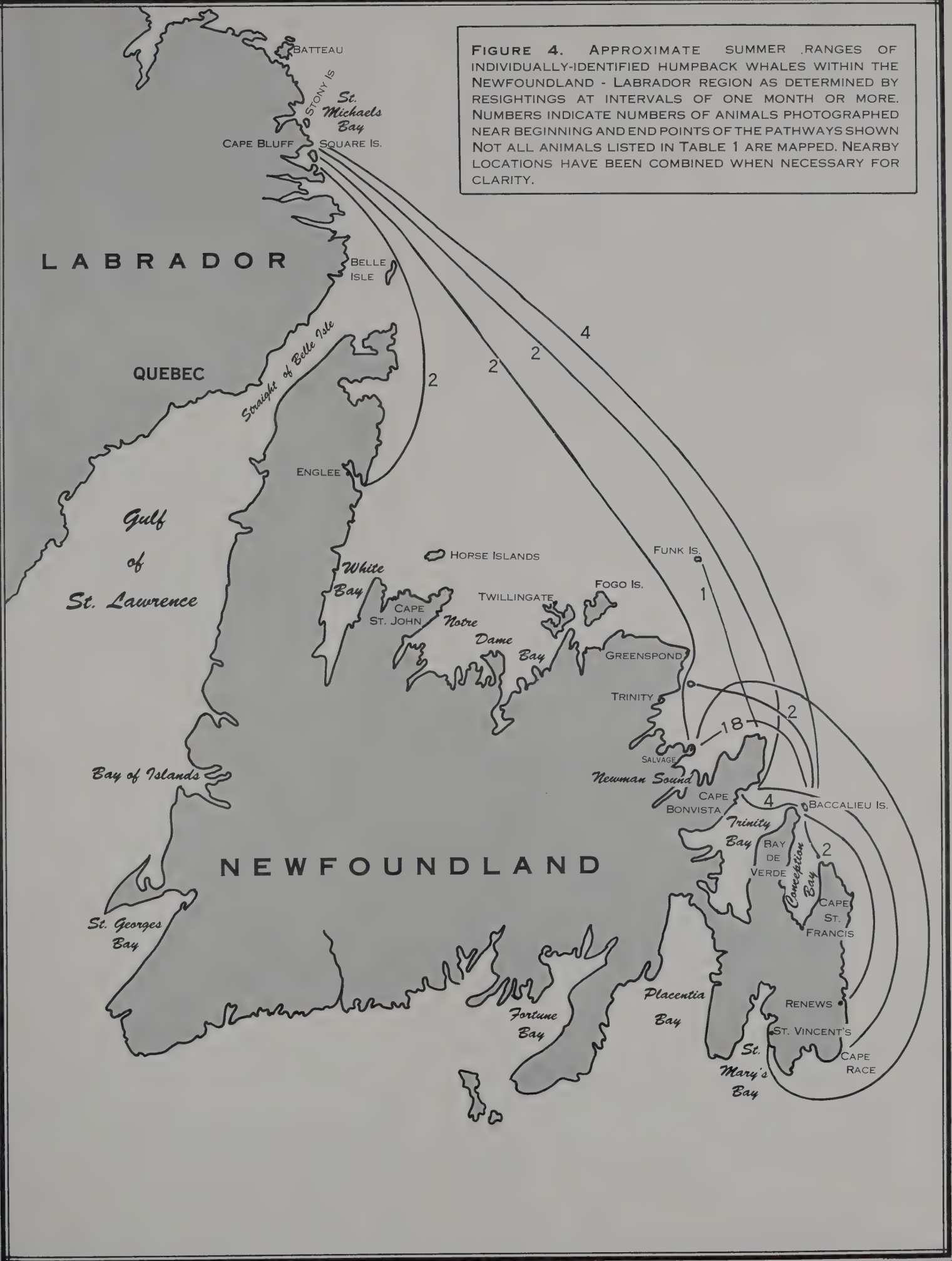


FIGURE 3. APPROXIMATE SUMMER RANGES OF PHOTO-IDENTIFIED HUMPBACK WHALES WITHIN THE NOVA SCOTIA - GULF OF MAINE REGION AS DETERMINED BY RESIGHTINGS AT INTERVALS OF ONE MONTH OR MORE.



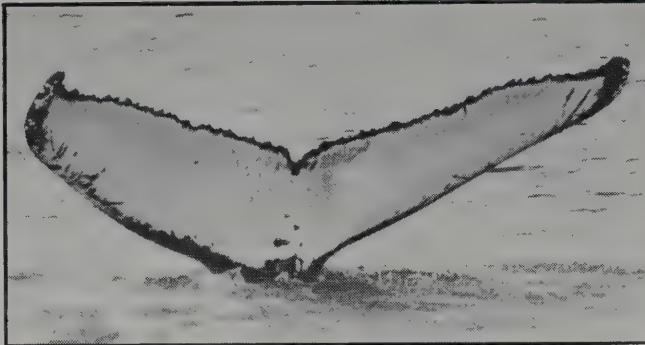
- A. CAPE COD BAY
- B. STELLWAGEN BANK
- C. JEFFREYS LEDGE
- D. OLD & NEW SCANTUM'S LEDGE
- E. WOODEN BALL IS. (MATINICUS REGION)
- F. MT. DESERT ROCK
- G. WEST QUODDY HEAD, MAINE
- H. BRIER'S ISLAND

**FIGURE 4.** APPROXIMATE SUMMER RANGES OF INDIVIDUALLY-IDENTIFIED HUMPBACK WHALES WITHIN THE NEWFOUNDLAND - LABRADOR REGION AS DETERMINED BY RESIGHTINGS AT INTERVALS OF ONE MONTH OR MORE. NUMBERS INDICATE NUMBERS OF ANIMALS PHOTOGRAPHED NEAR BEGINNING AND END POINTS OF THE PATHWAYS SHOWN. NOT ALL ANIMALS LISTED IN TABLE 1 ARE MAPPED. NEARBY LOCATIONS HAVE BEEN COMBINED WHEN NECESSARY FOR CLARITY.



## FLUKE PHOTOGRAPHS

SAMPLES OF FLUKES FEATURING IDENTIFYING PATTERNS CAUSED BY OTHER ORGANISMS.

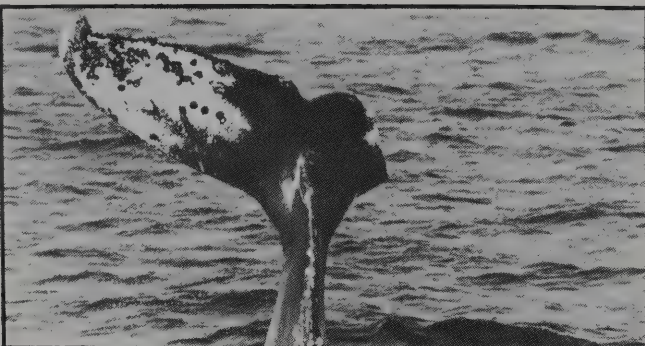
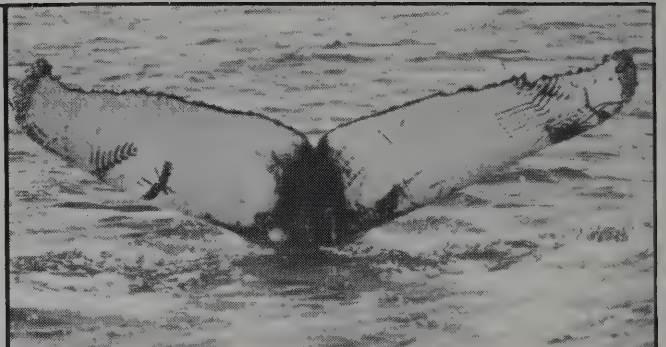


0004

DIATOMS, GOLDEN BROWN IN LIFE, APPEAR GRAY IN THESE PHOTOGRAPHS

1115

KILLER WHALE TEETH SCARRED BOTH SIDES OF THIS FLUKE AND PROBABLY CAUSED THE SMALL INJURY ON THE RIGHT POSTERIOR FLUKE MARGIN.



0153

THE RIGHT FLUKE OF THIS WHALE WAS PROBABLY CUT OFF BY A SHIP'S PROPELLOR. THE BLACK DOTS SEEM TO BE SCARS WHERE BARNACLES WERE SCRAPED OFF.

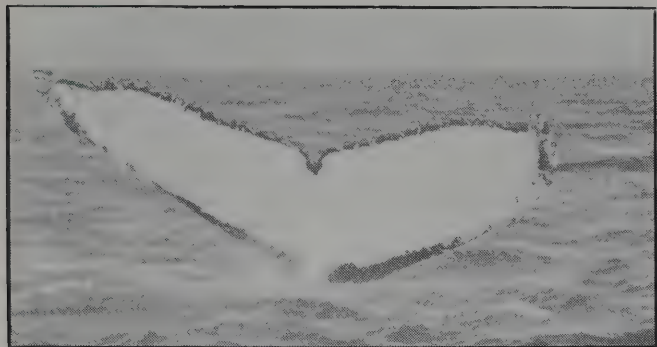
1004

BARNACLES (PROBABLY *CORONULA DIADEMA*) APPEAR AS WHITE CIRCLES ON THE DARK PARTS OF THE FLUKE, BUT SHOW UP AS DARK GRAY DOTS ON THE WHITE PARTS OF THE FLUKE. ALL THE FLUKES SHOWN HERE HAVE BARNACLES ON THEIR TIPS.

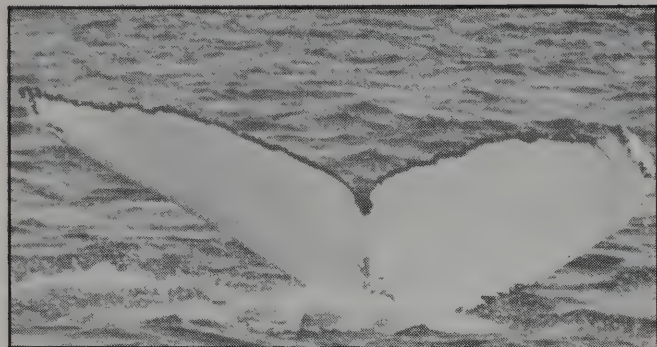




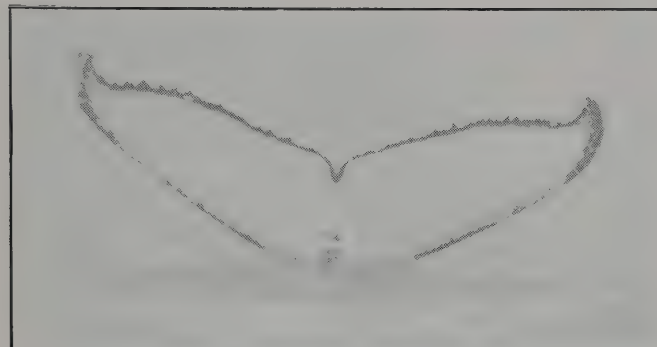
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1726



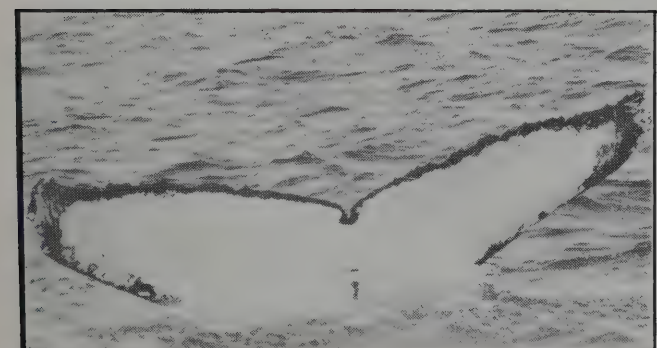
1973



1648



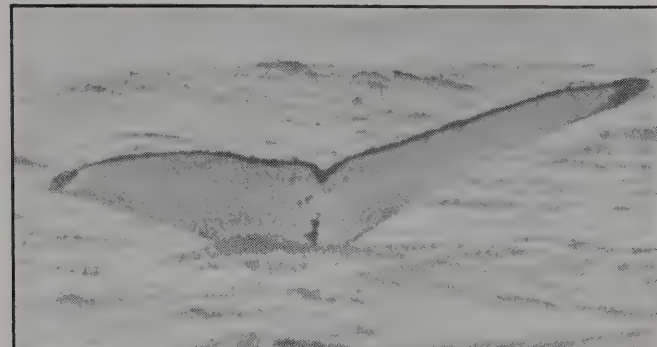
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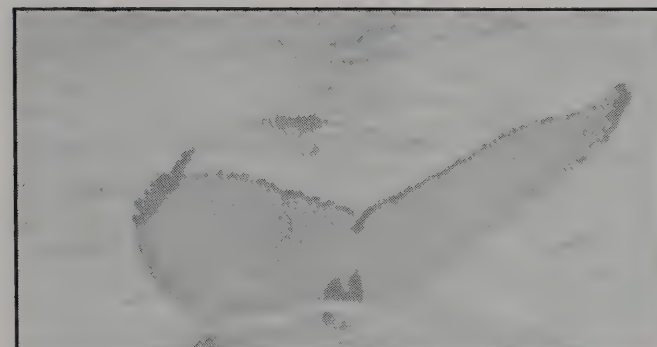
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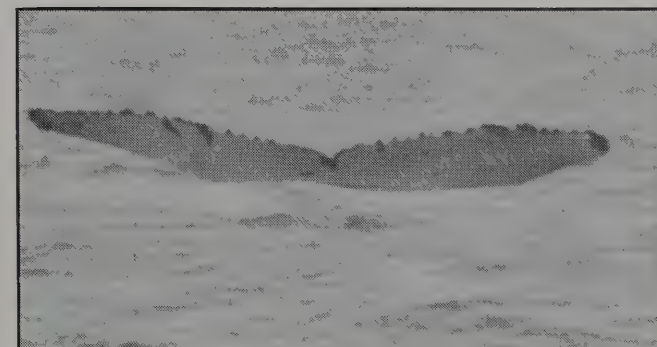
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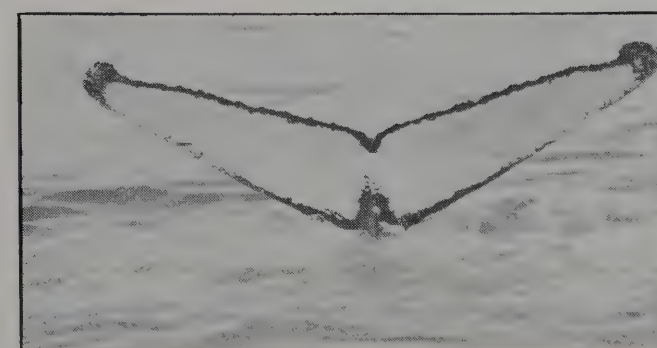
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1501



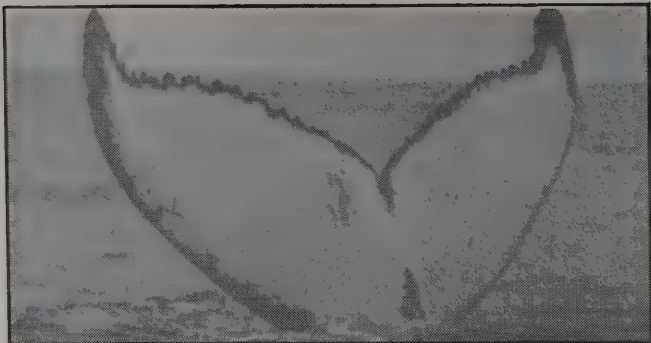
1762



NEWFOUNDLAND 1979



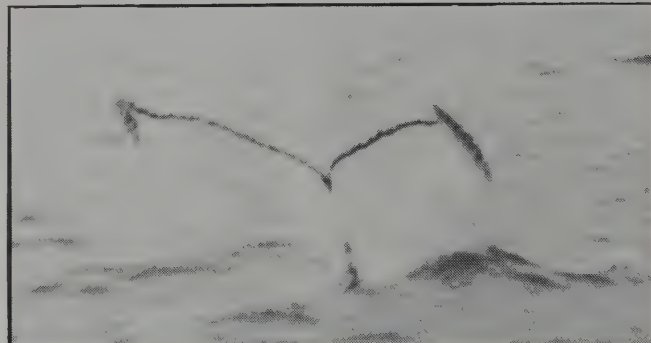
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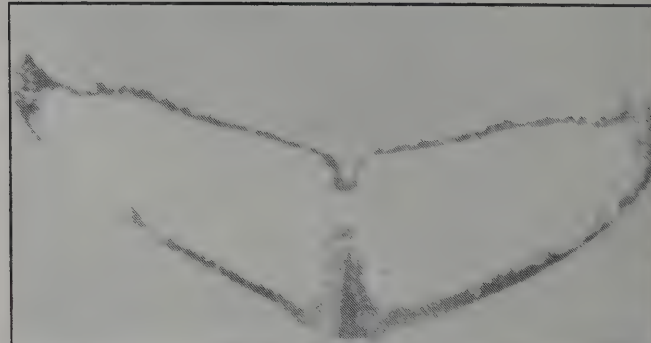
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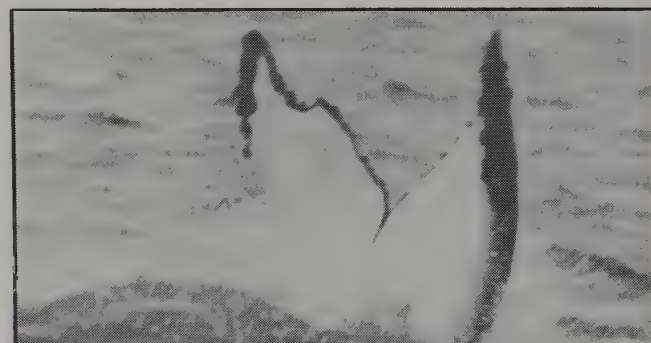
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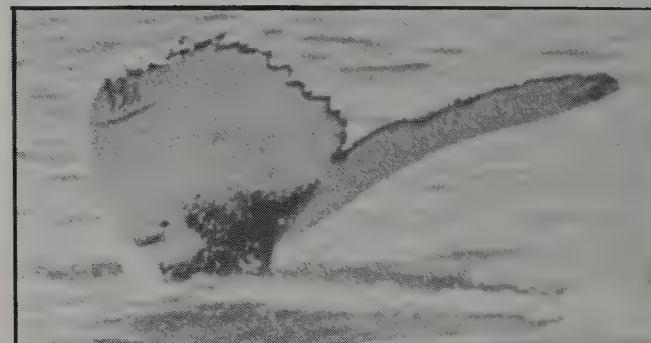
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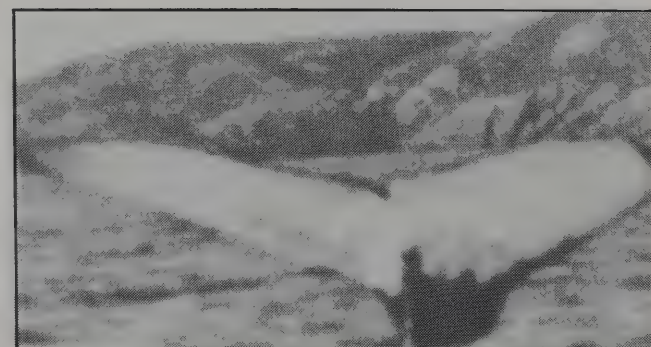
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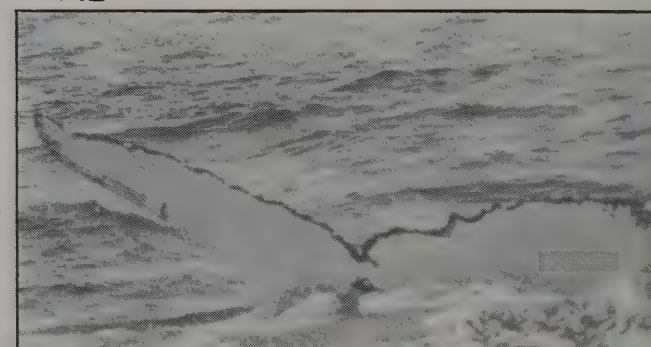
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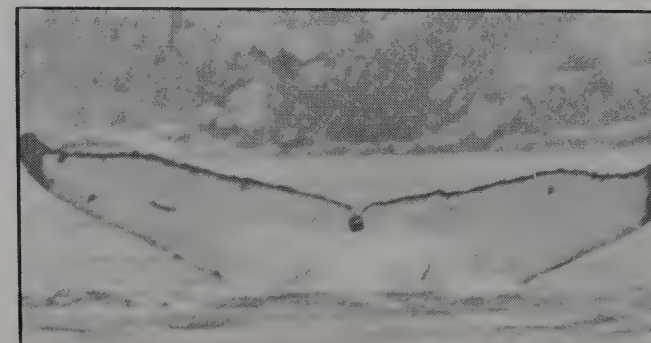
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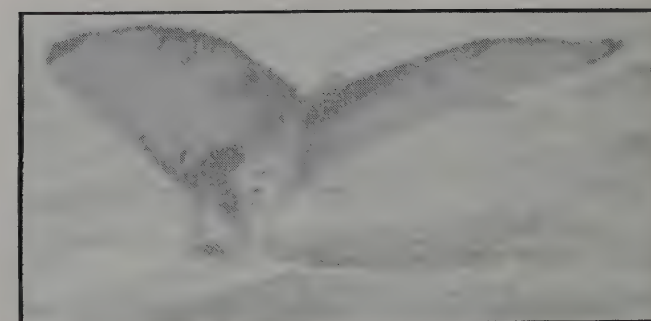
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1693



1571

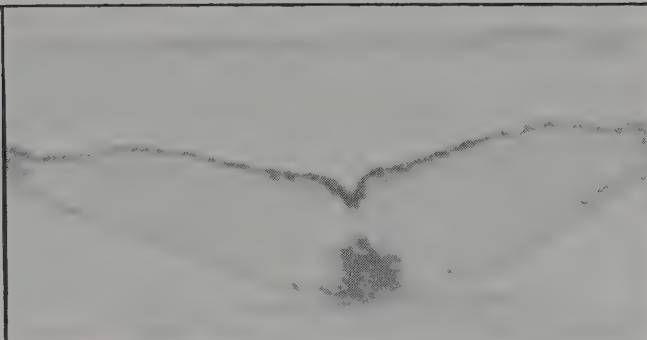




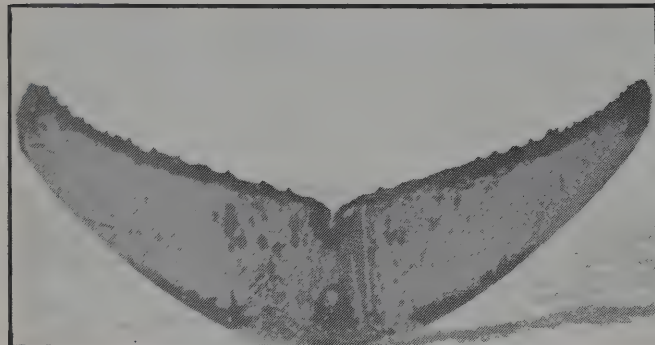
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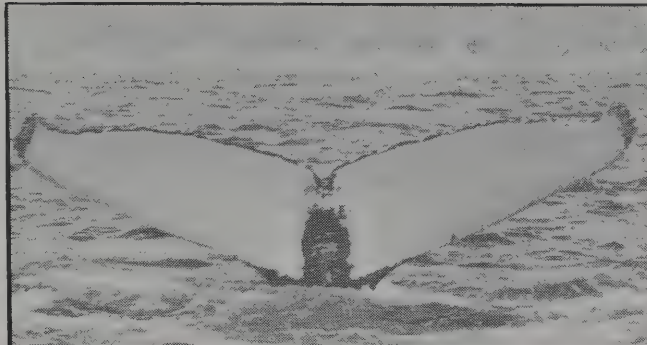
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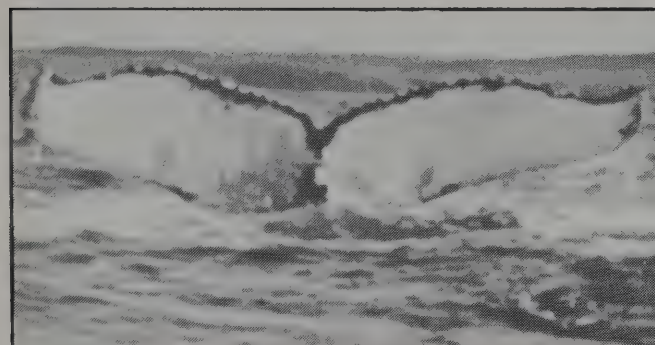
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1862



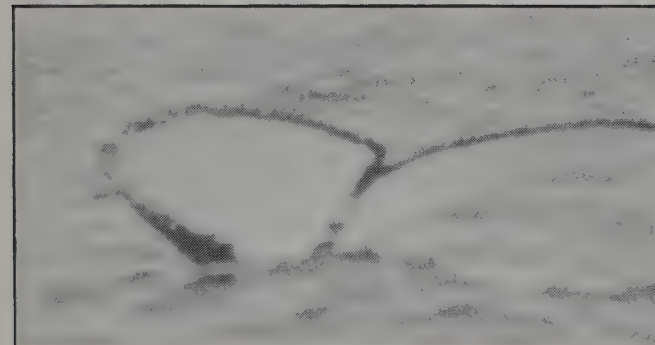
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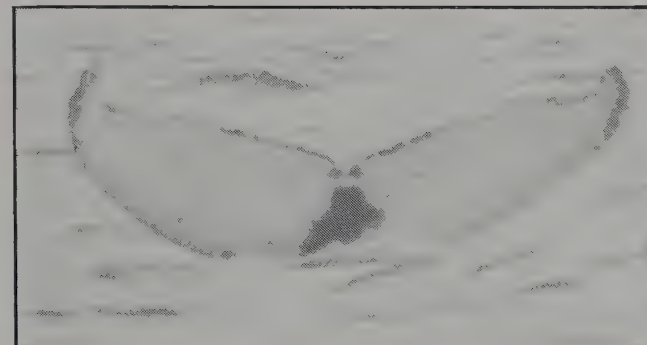
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1724



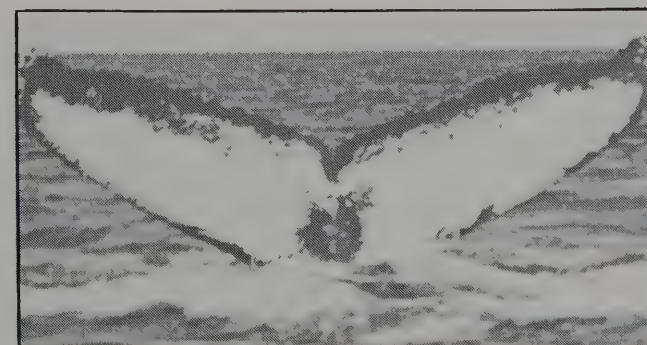
1600



1728



1972



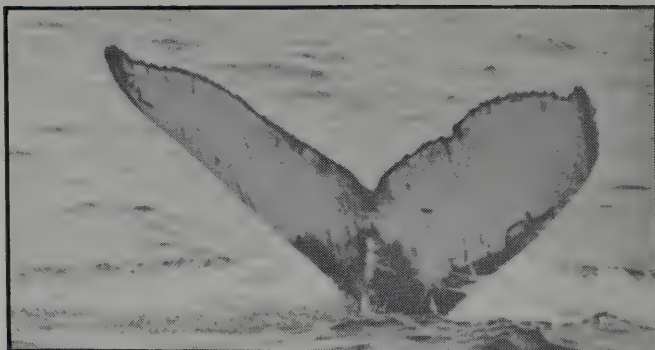
NEWFOUNDLAND 1979



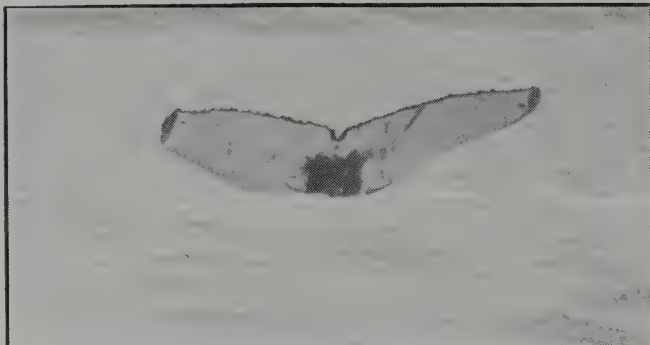
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1703



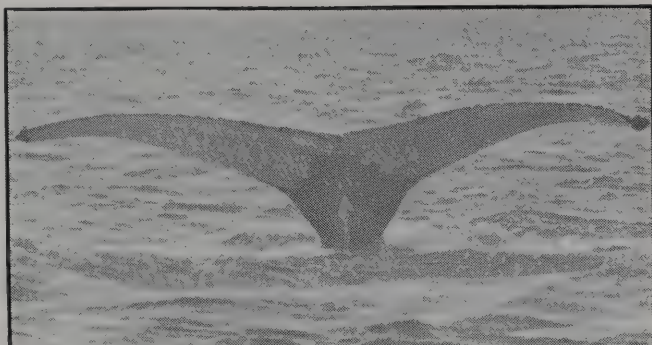
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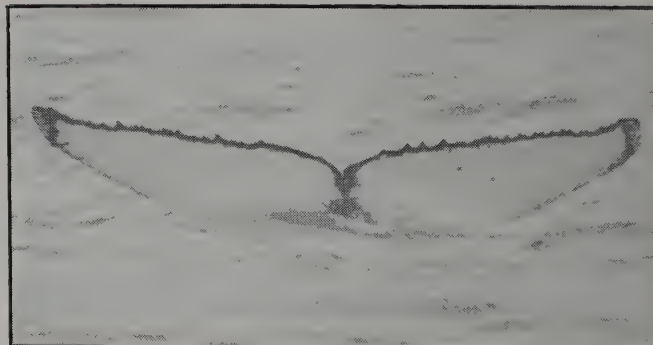
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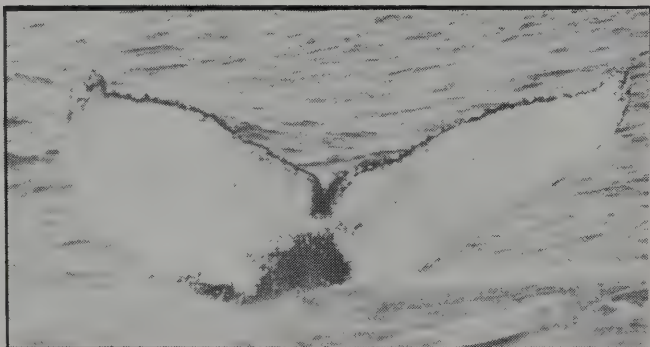
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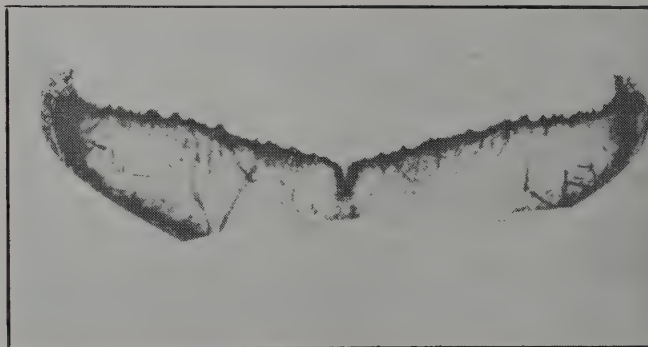
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1743



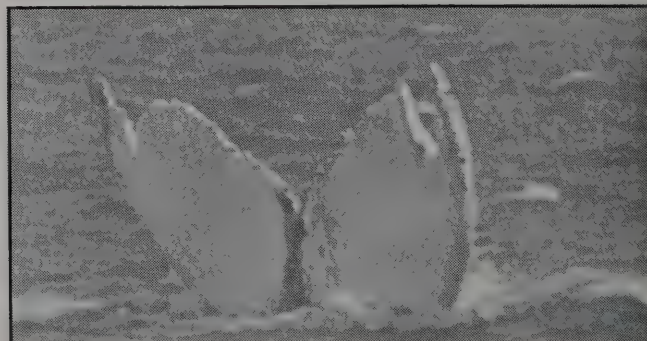
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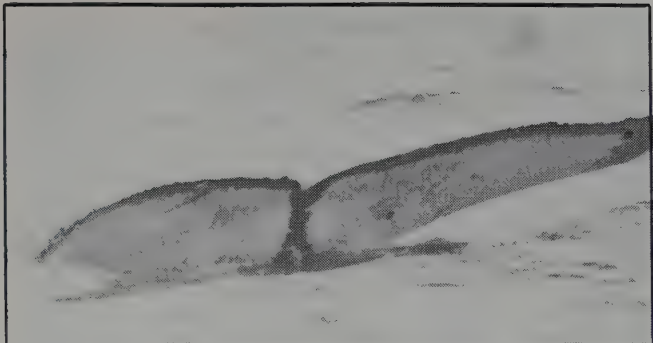
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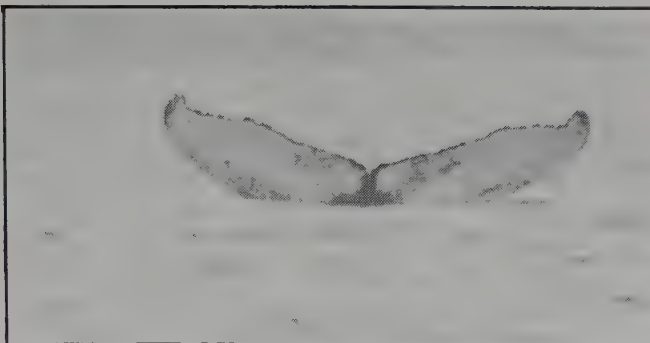
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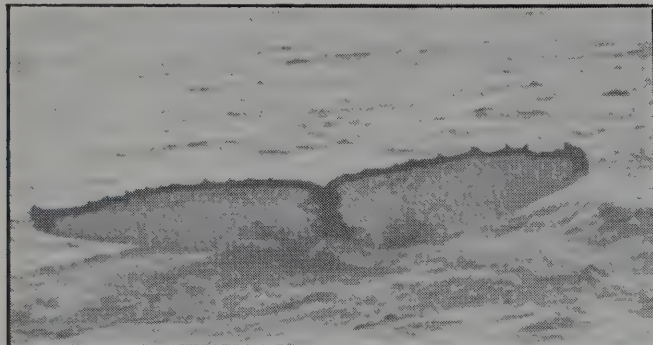
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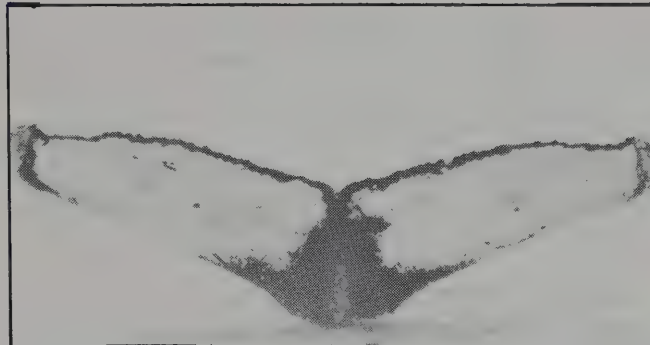
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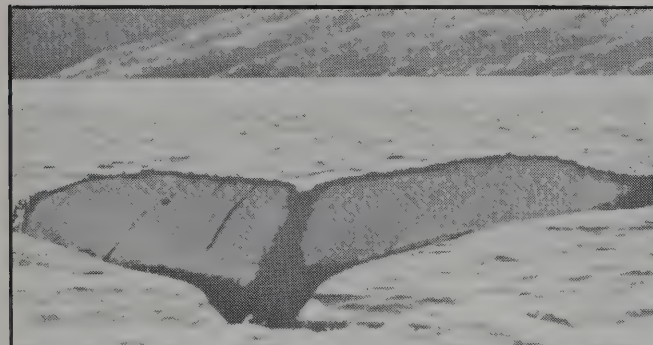
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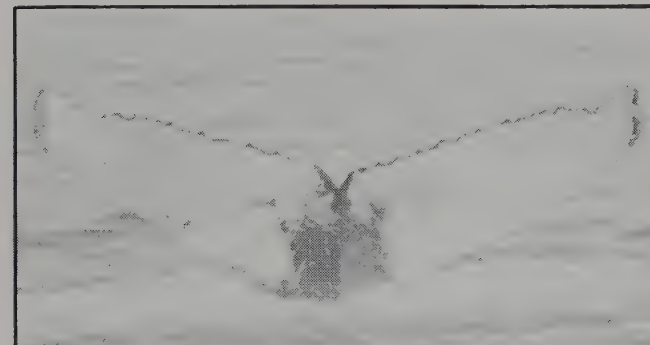
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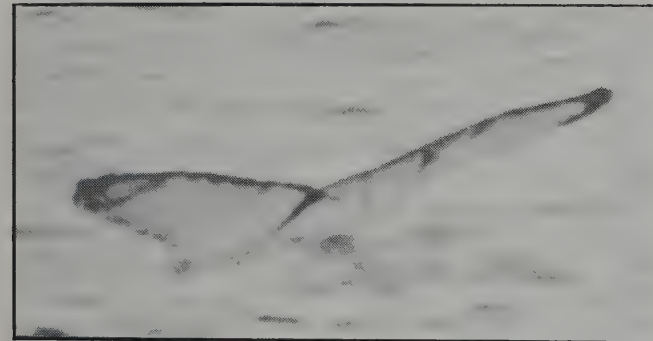
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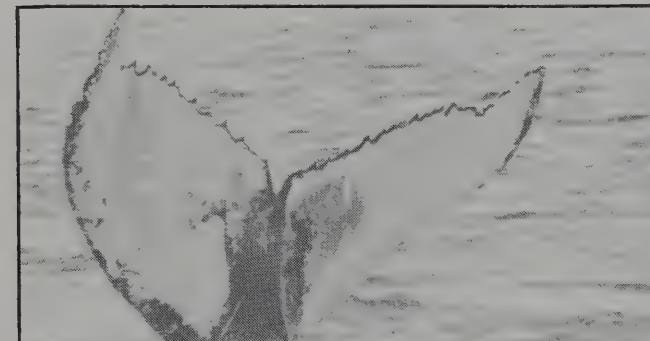
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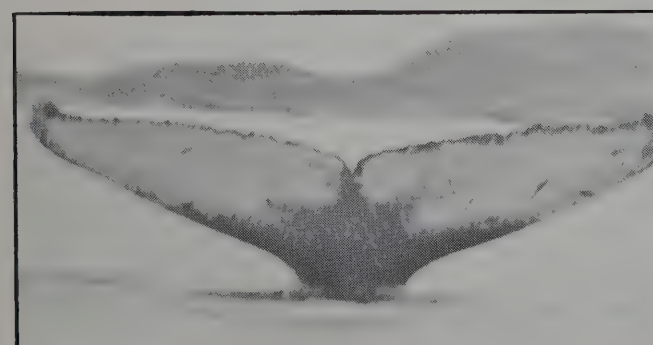
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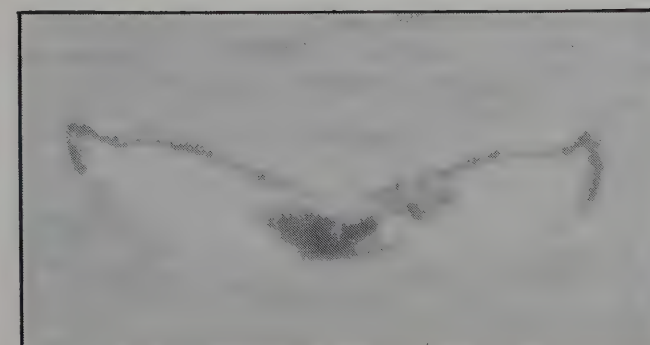
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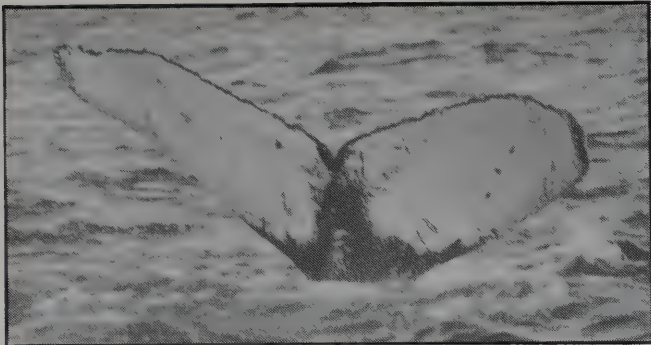
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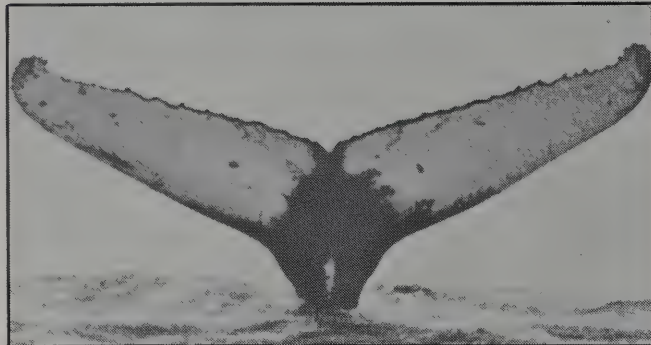
NEWFOUNDLAND 1979



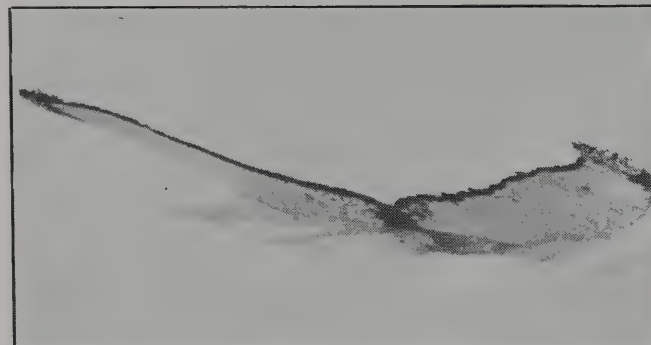
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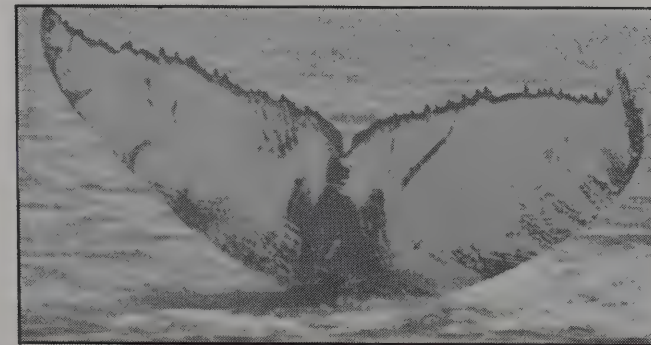
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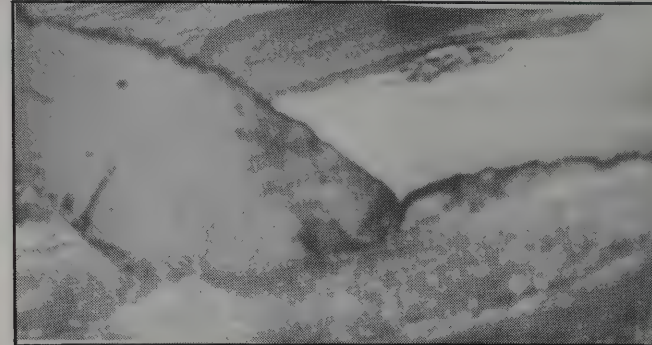
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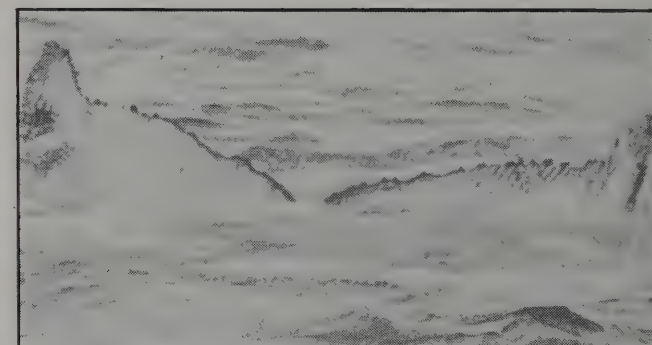
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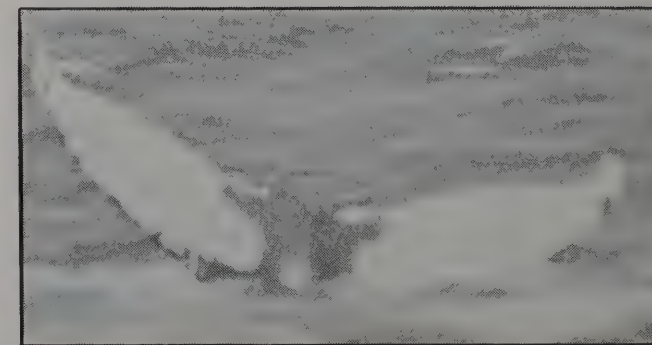
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1539B

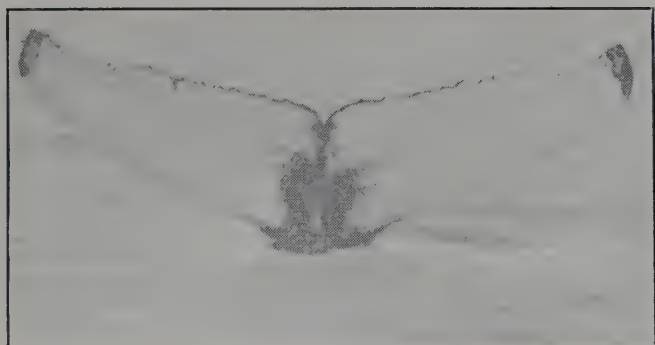


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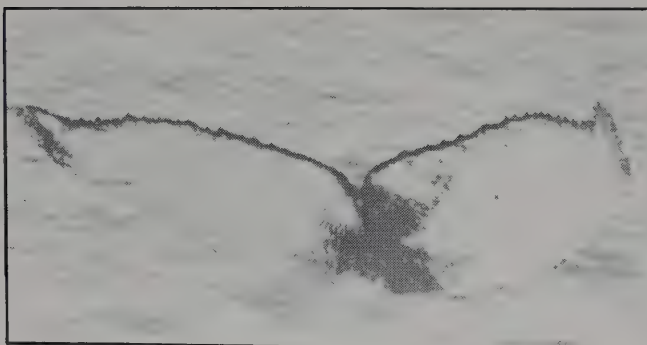




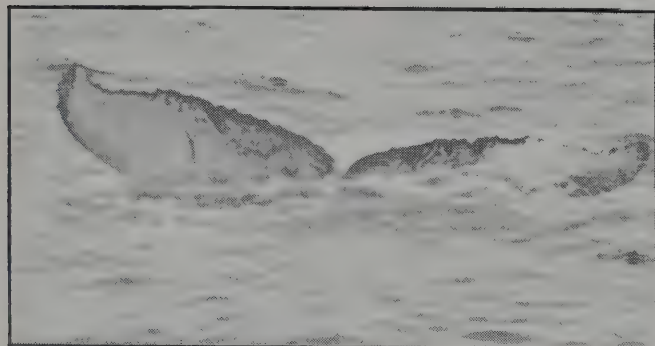
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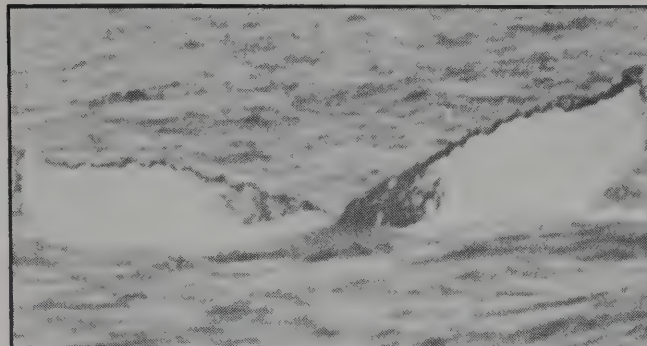
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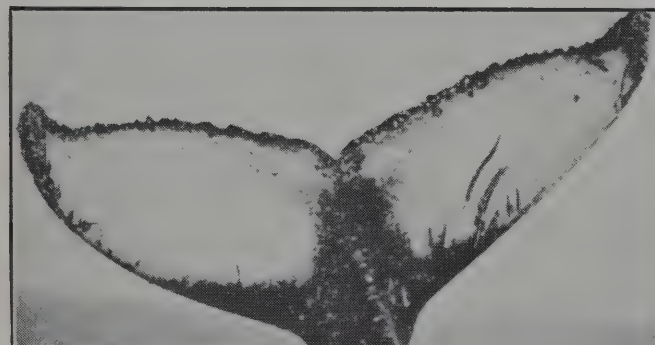
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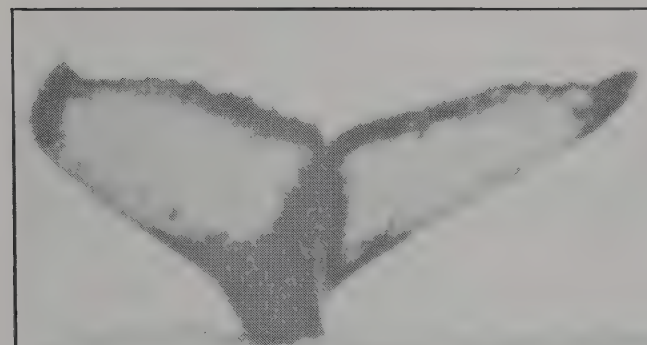
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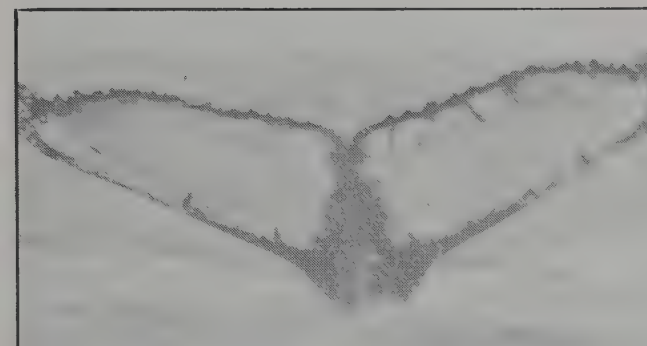
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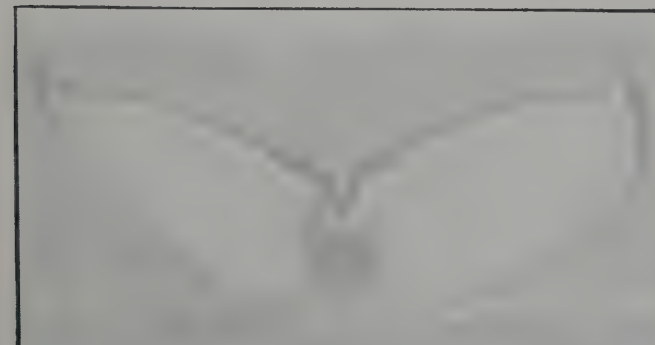
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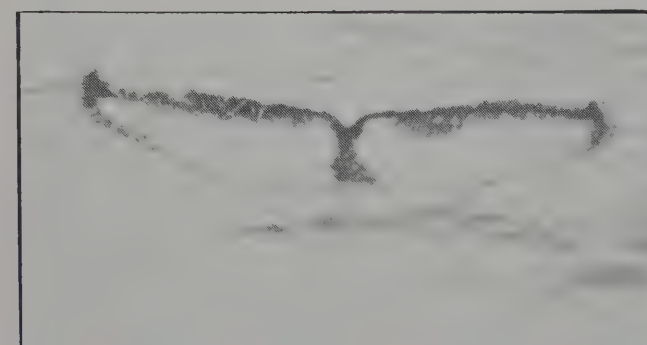
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1952



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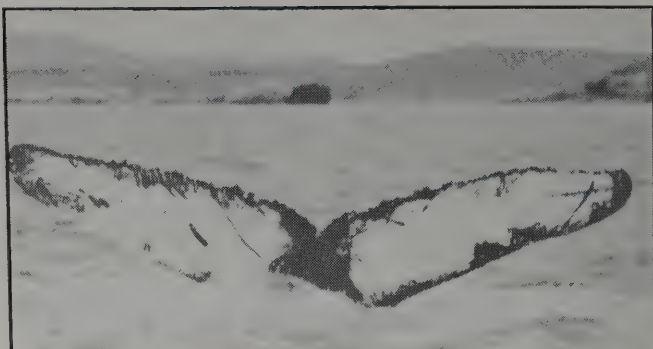


NEWFOUNDLAND 1979

1752



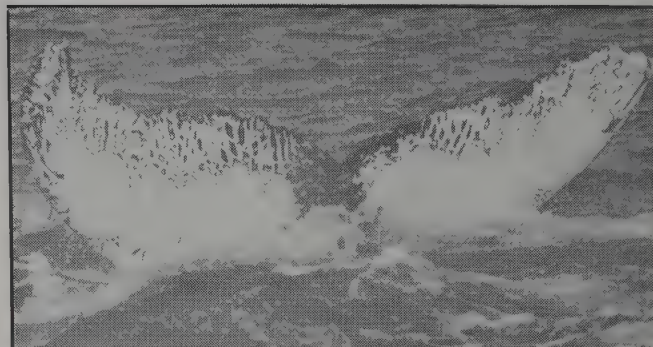
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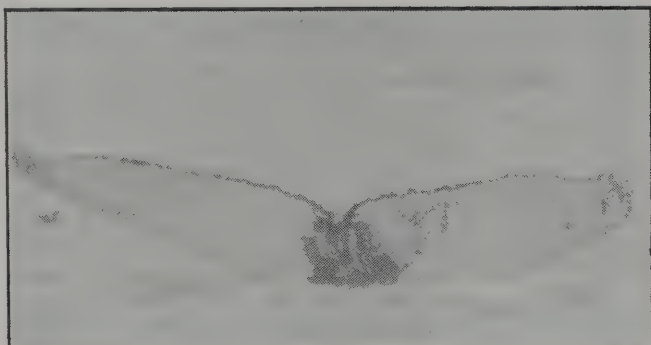
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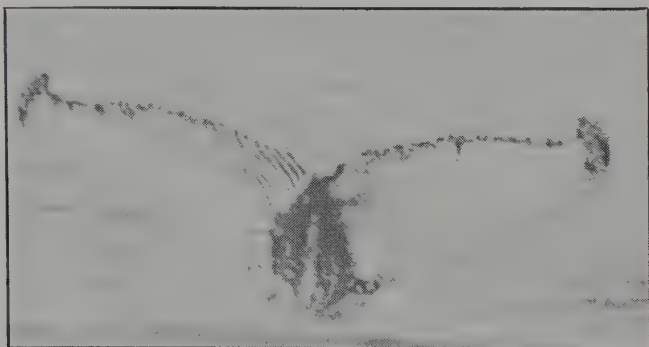
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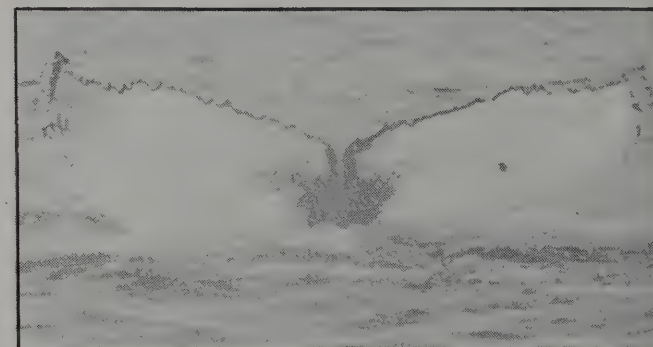
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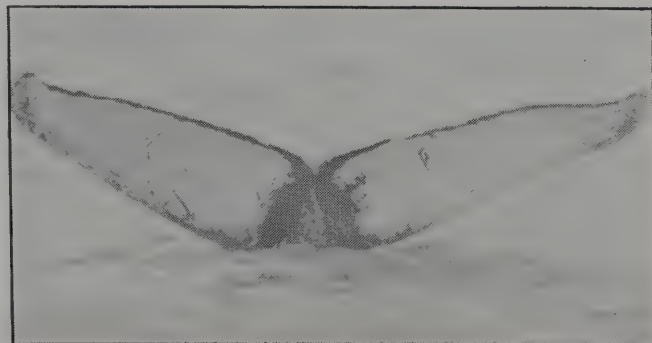
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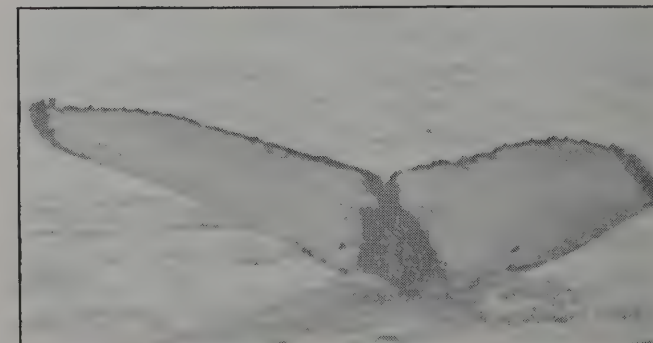
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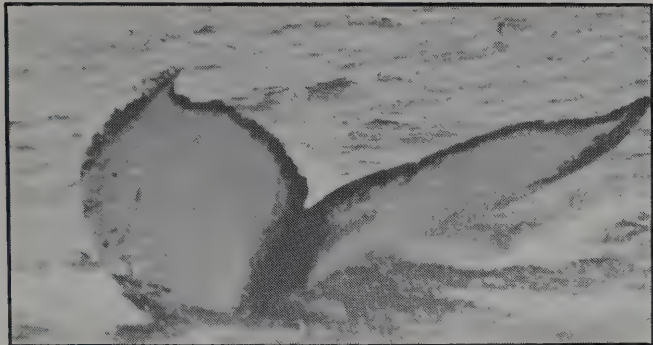


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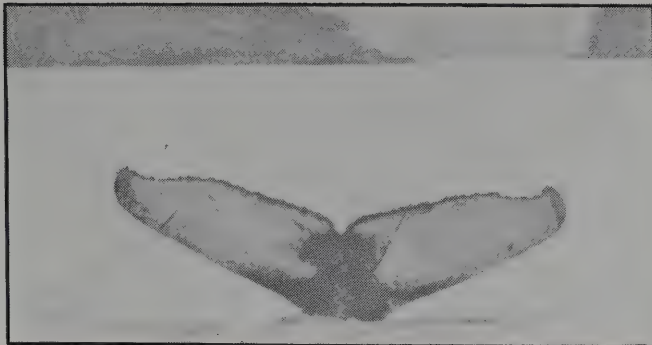




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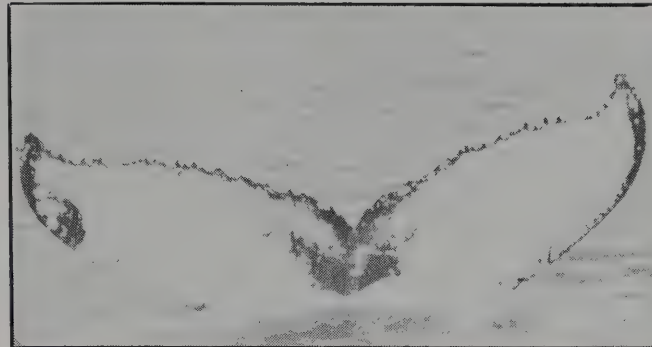
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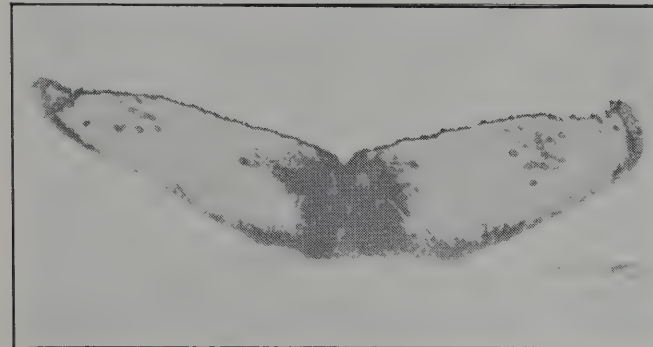
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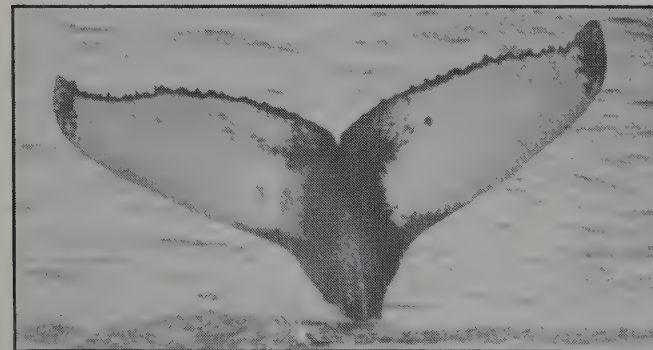
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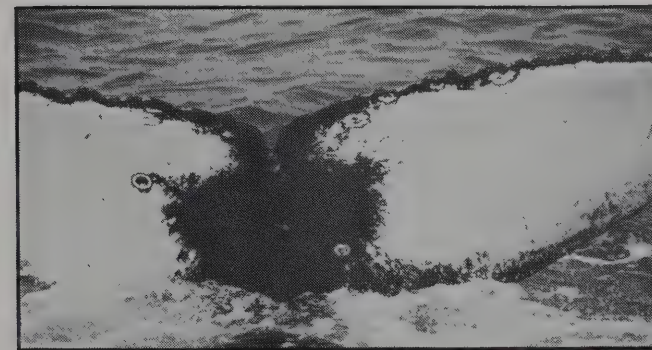
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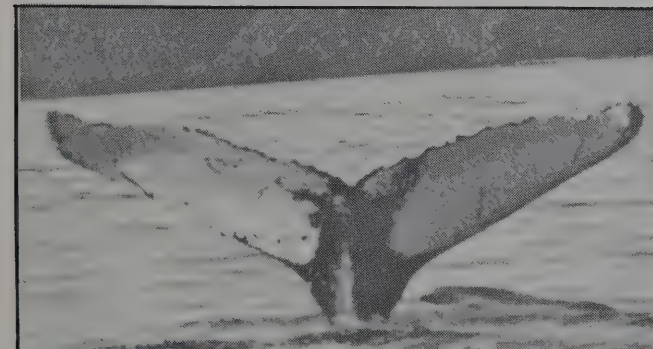
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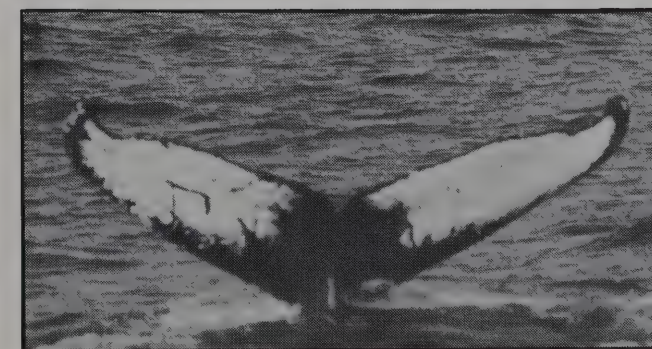
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1708



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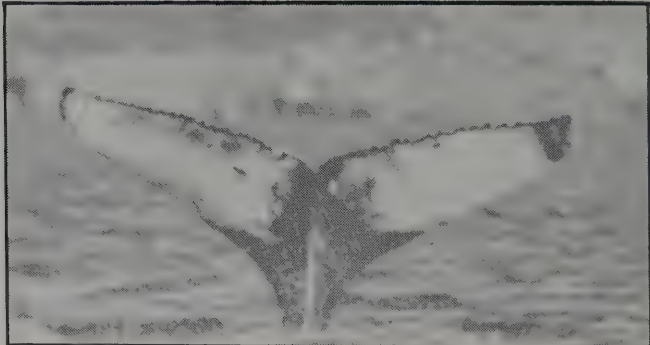
NEWFOUNDLAND 1979



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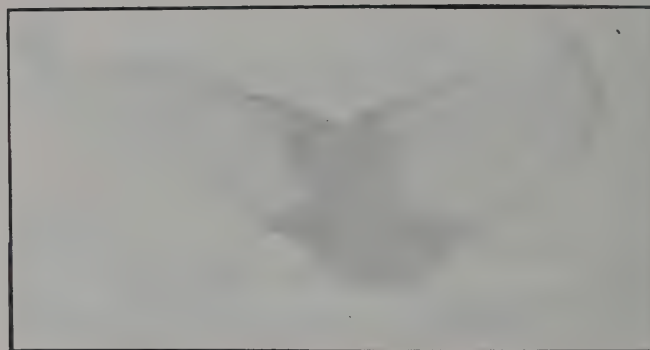
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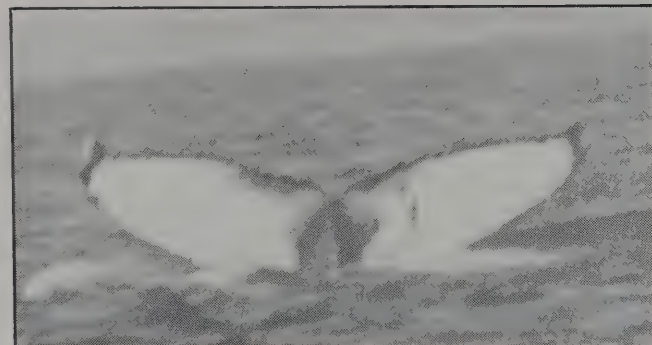
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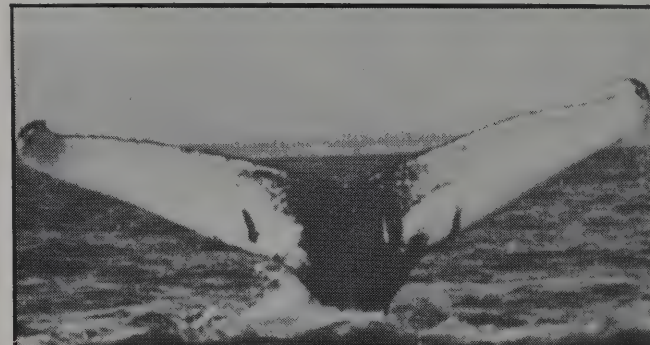
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1920



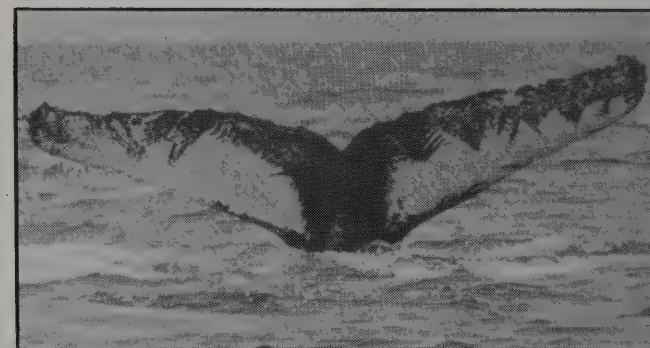
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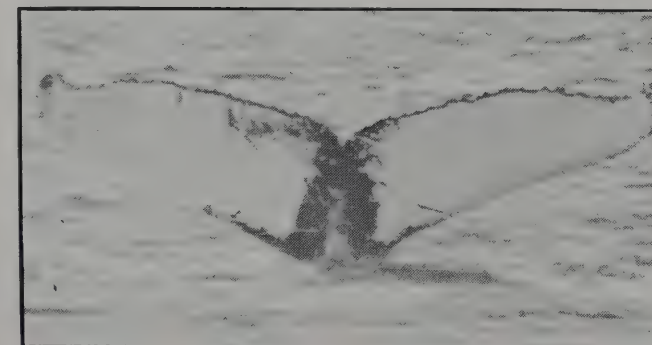
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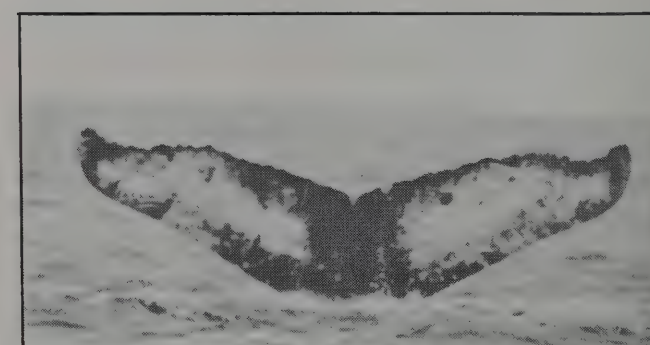
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1734



1534

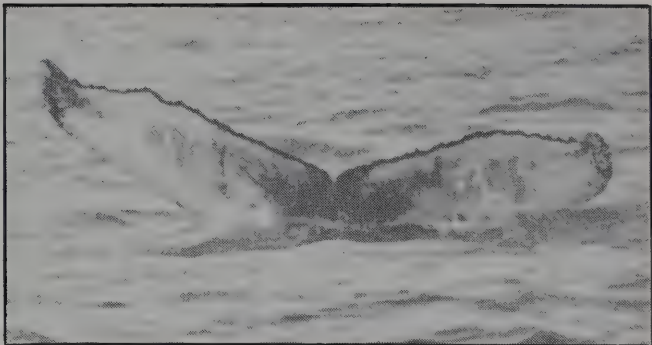




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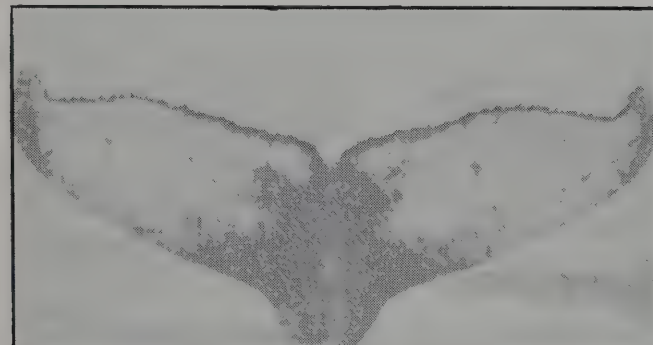
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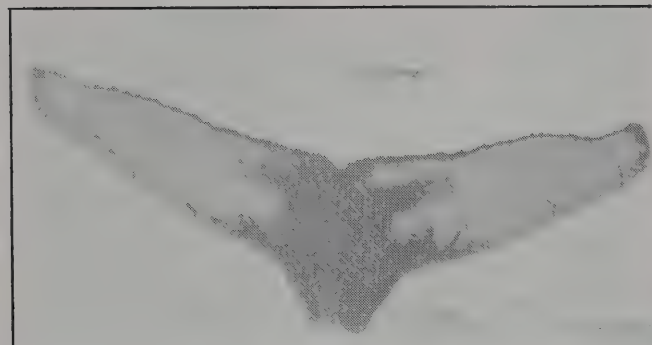
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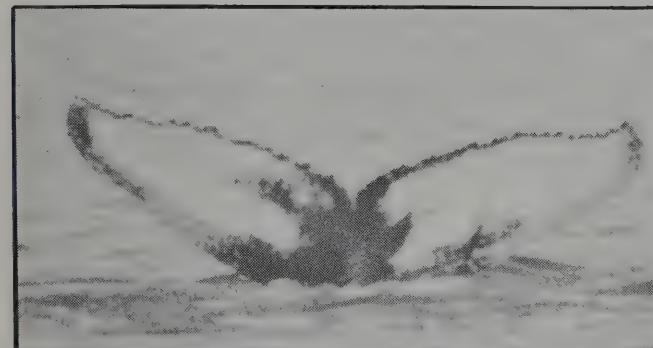
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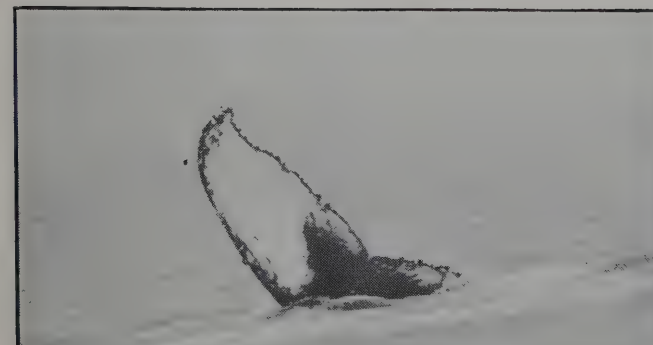
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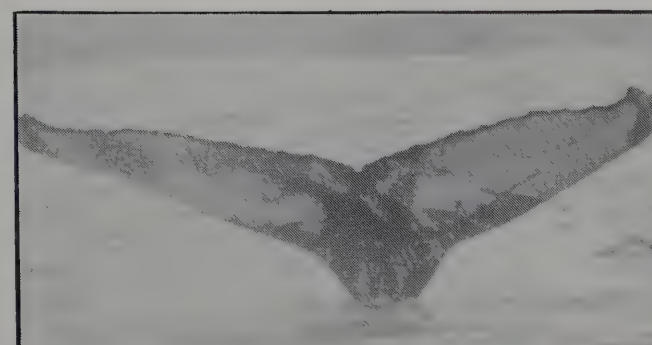
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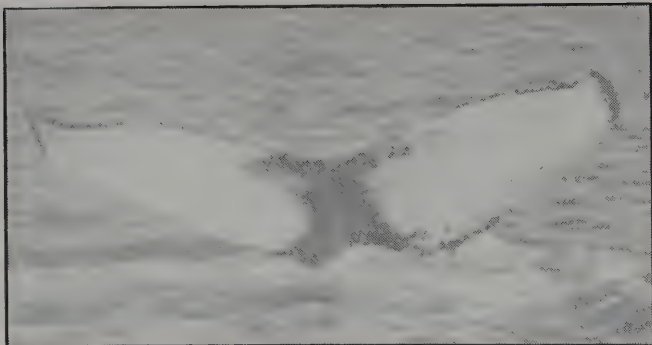
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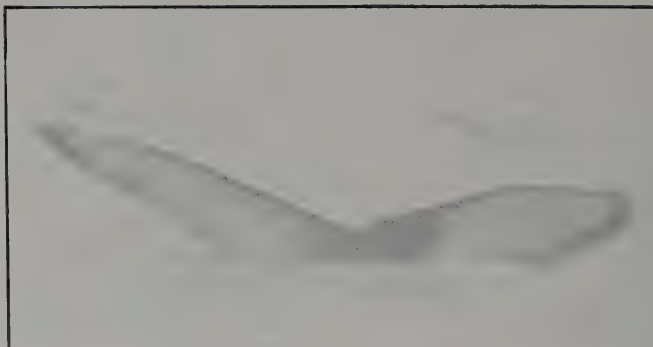
NEWFOUNDLAND 1979



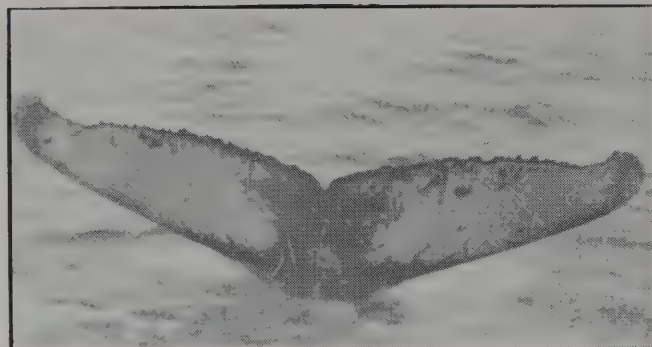
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1624



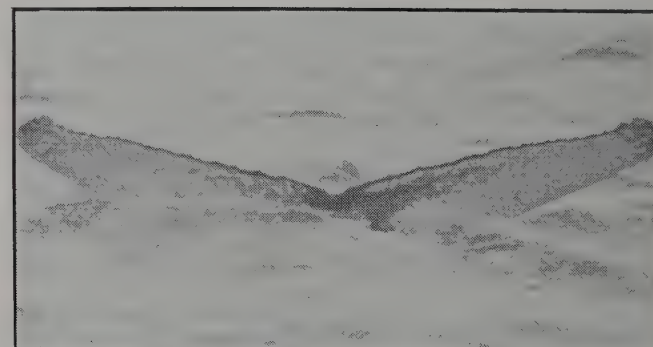
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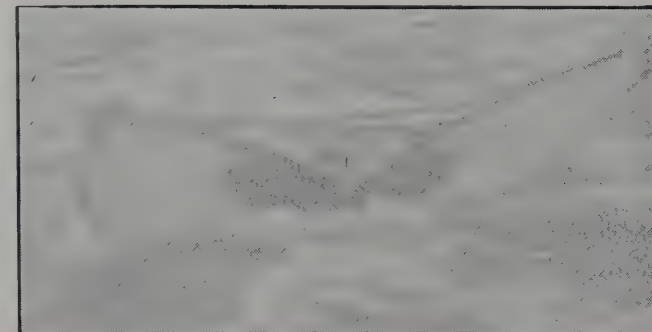
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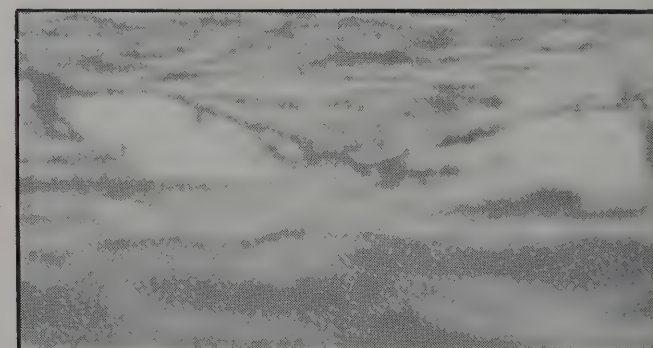
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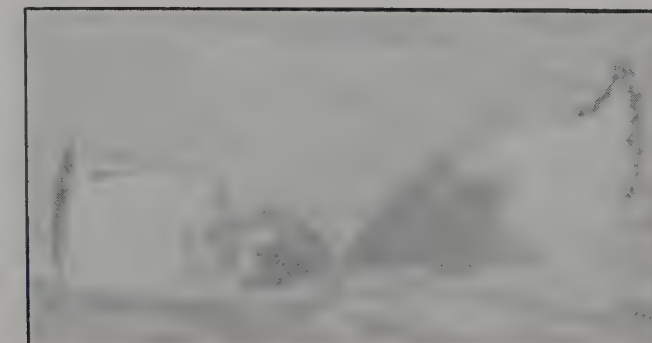
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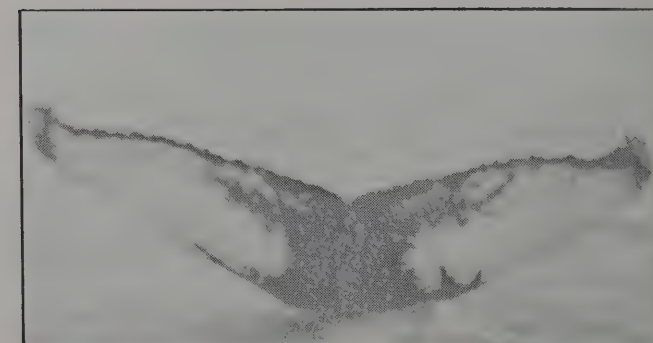
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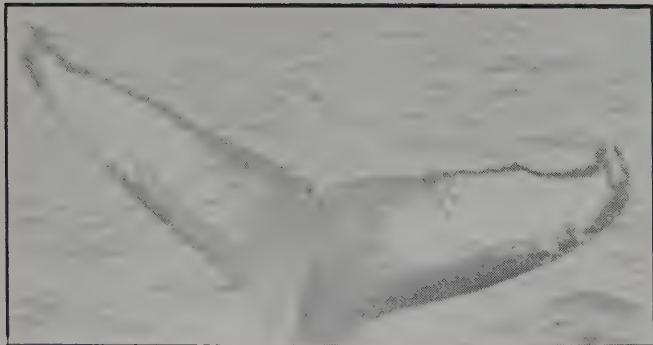
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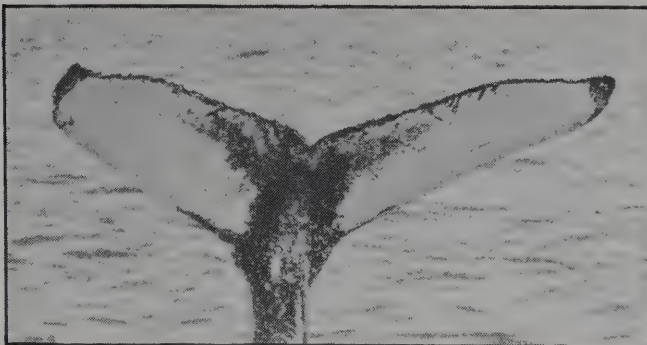
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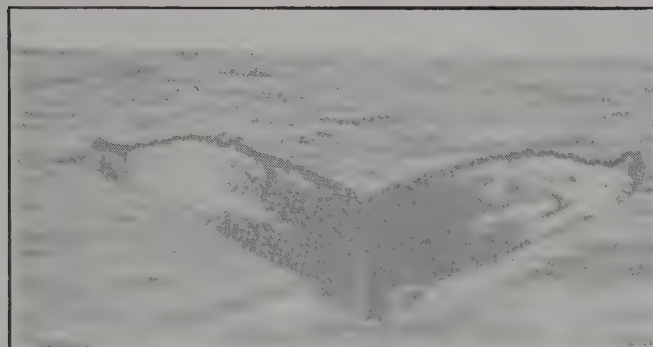
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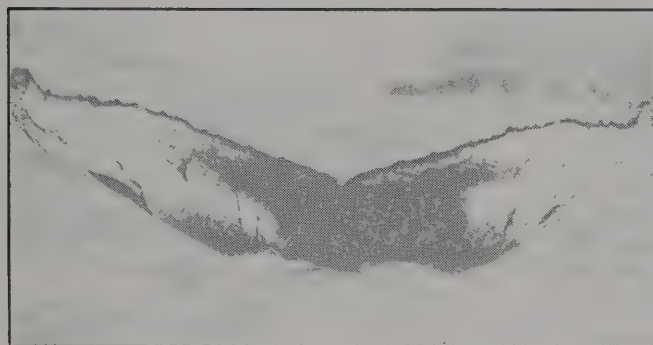
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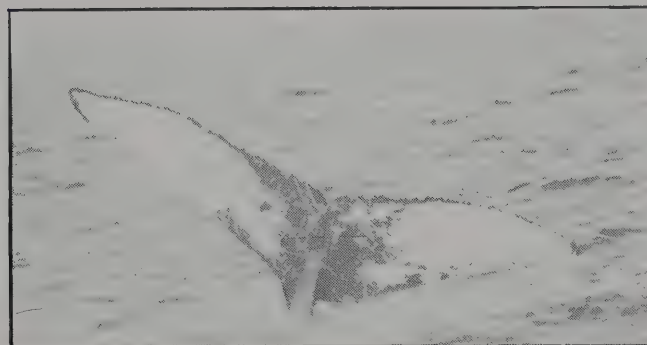
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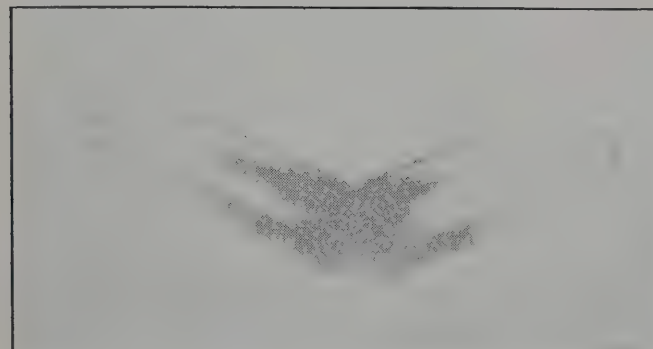
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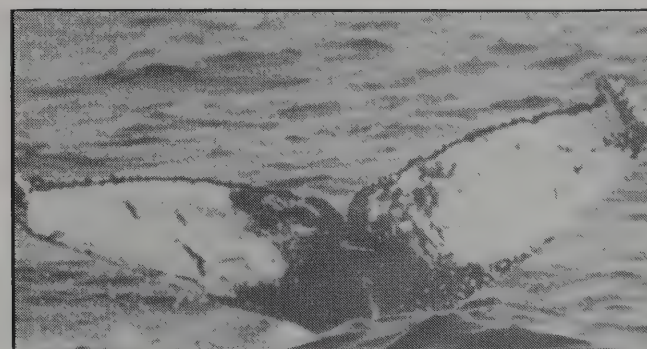
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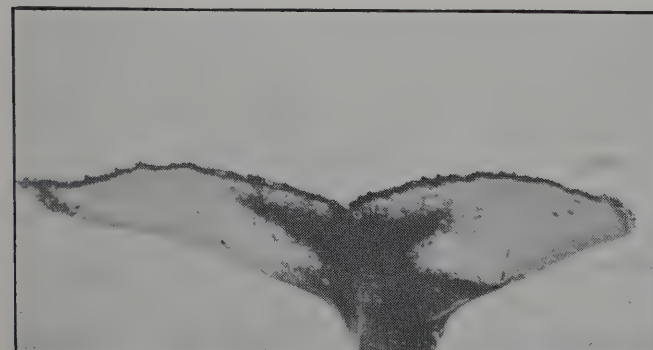
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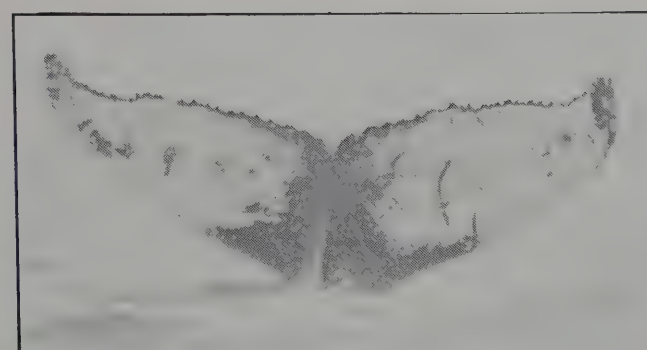
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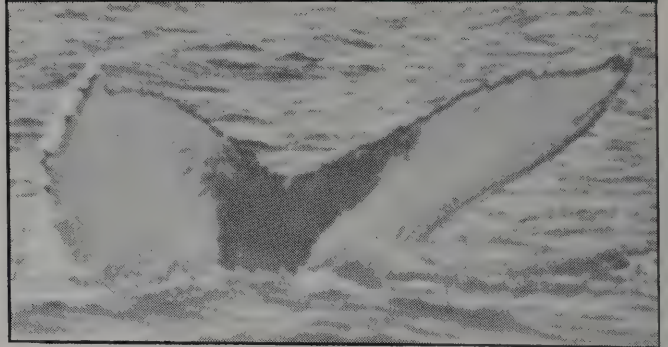
NEWFOUNDLAND 1979



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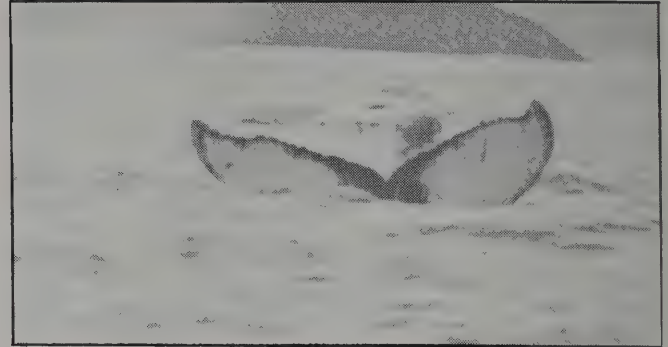
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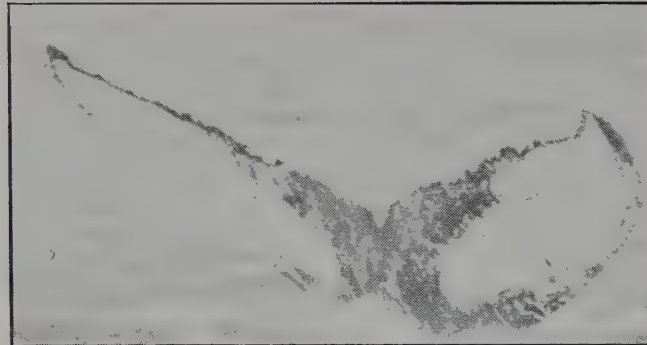
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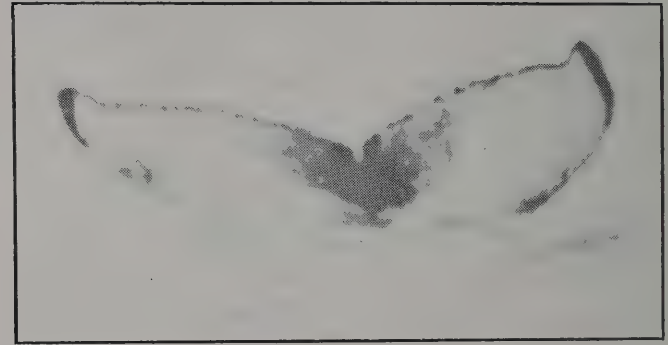
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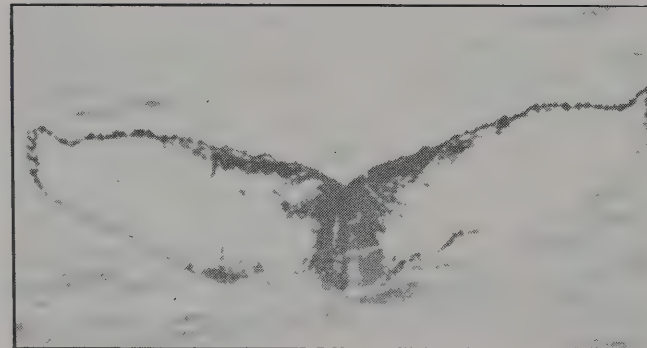
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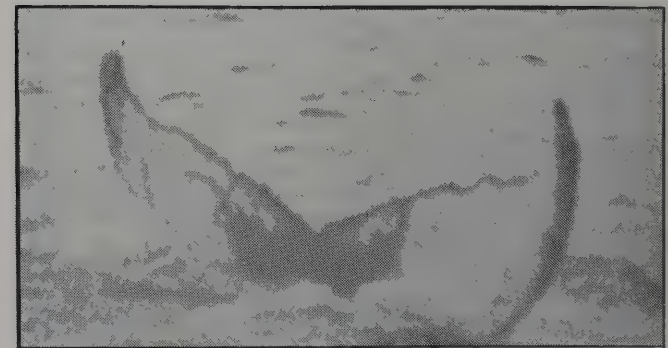
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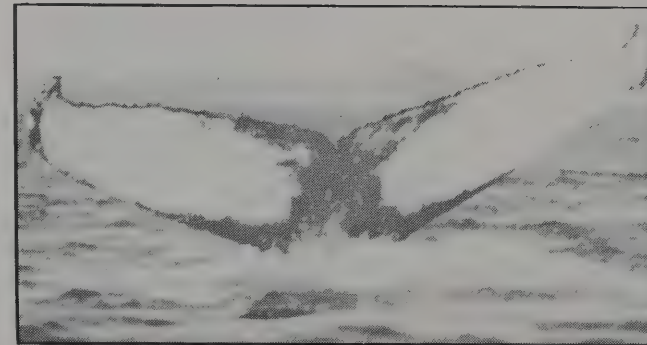
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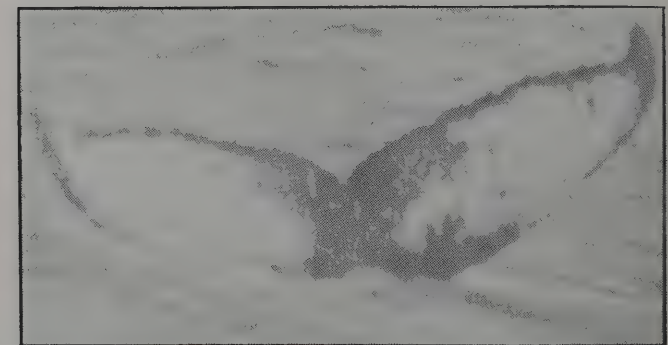
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1866



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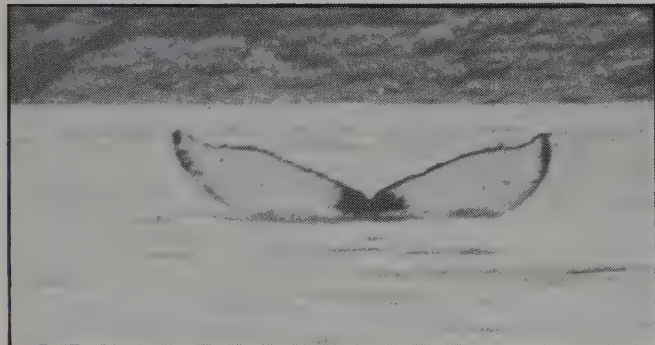




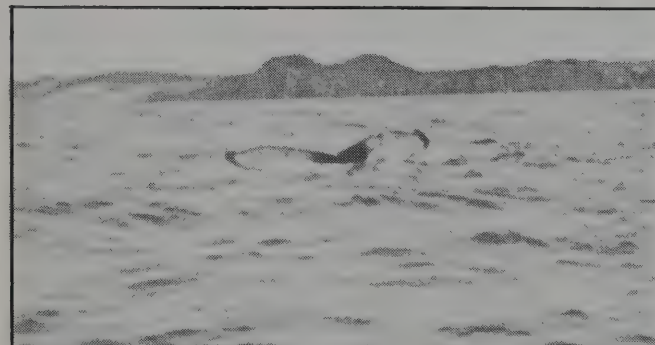
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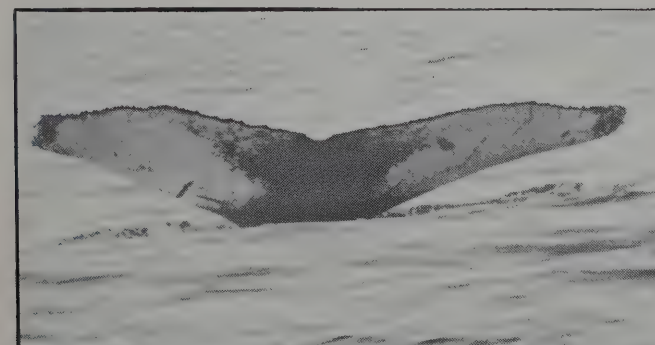
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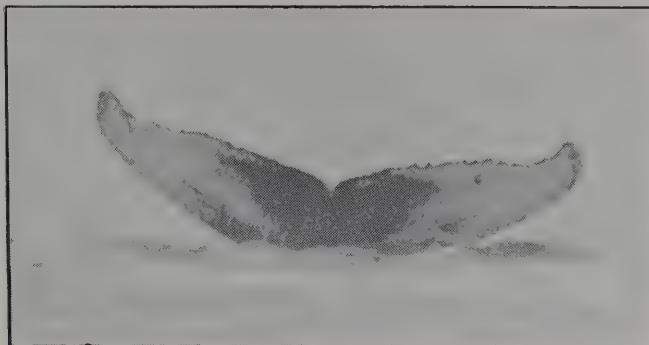
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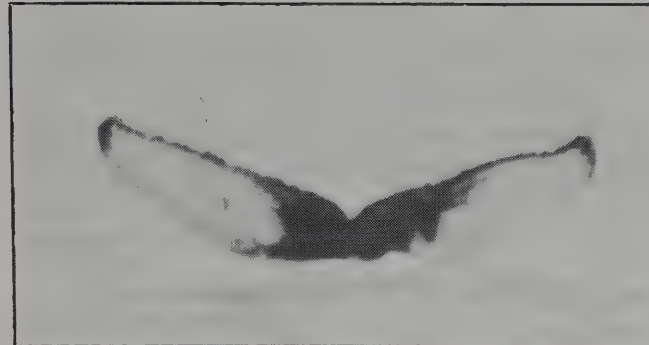
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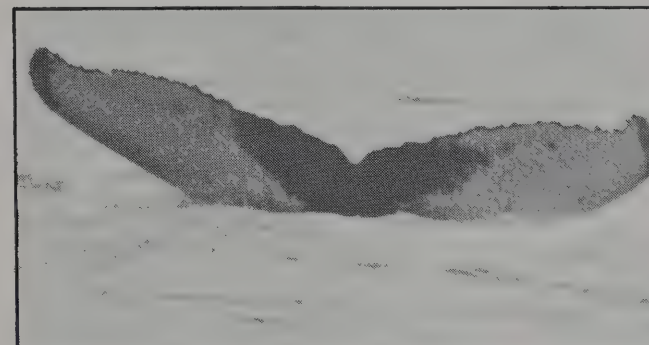
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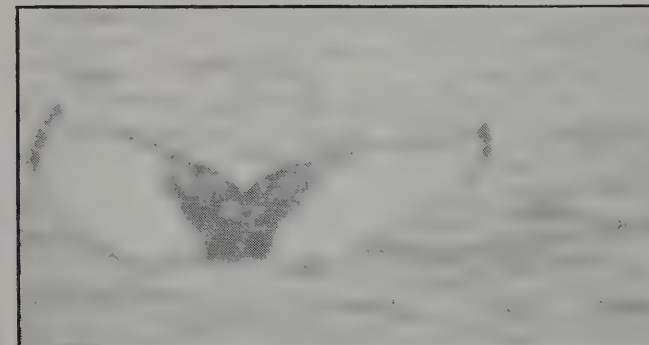
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1700



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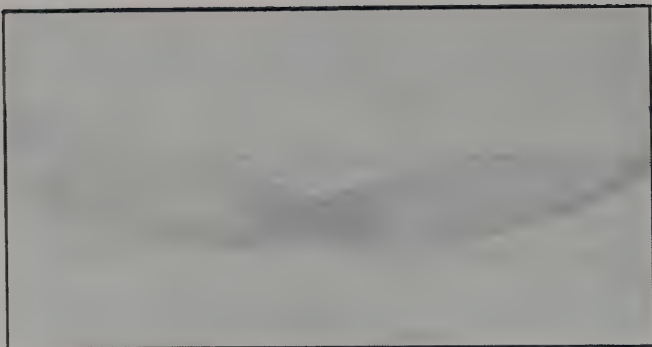
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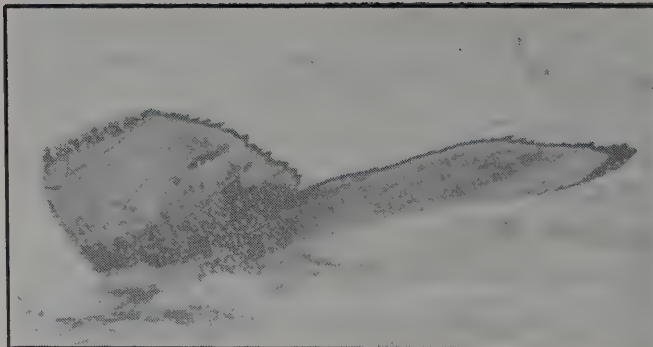
NEWFOUNDLAND 1979



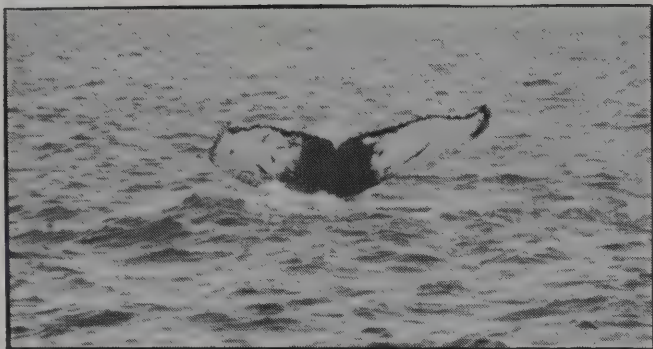
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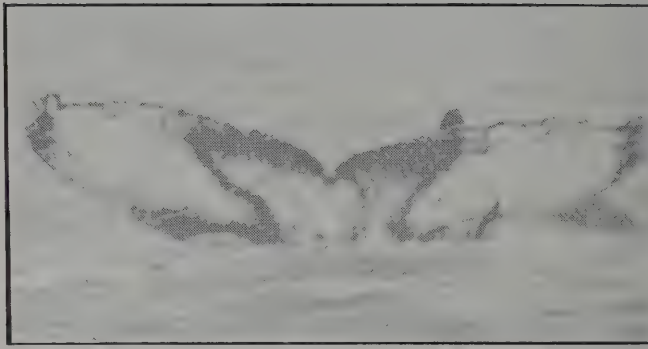
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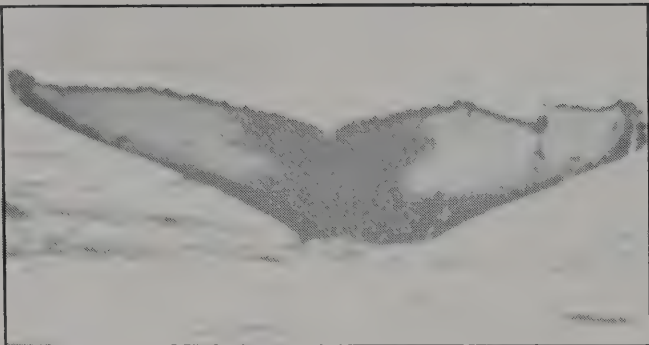
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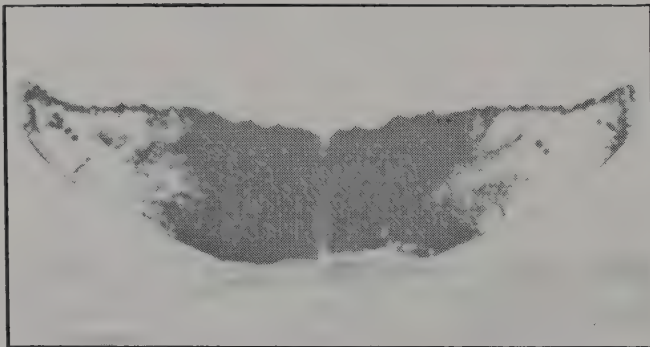
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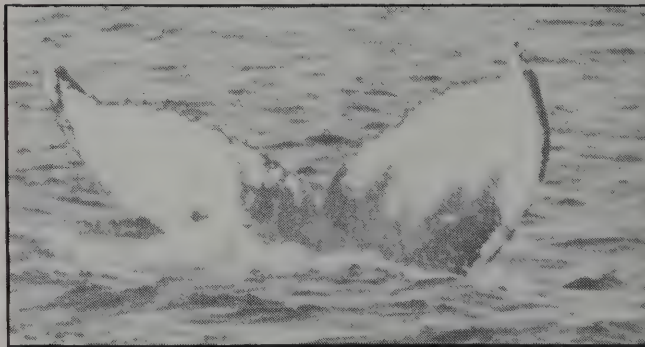
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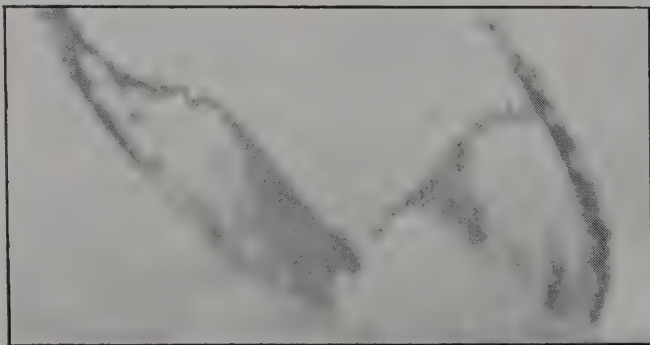
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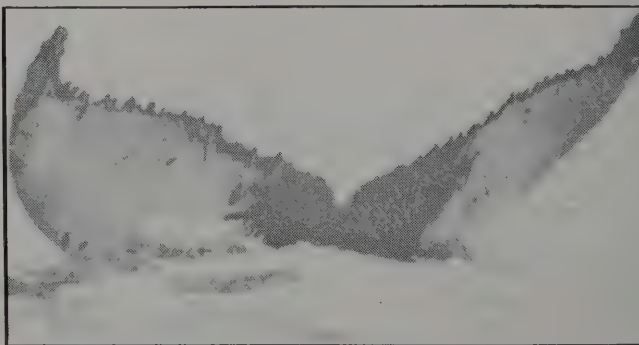
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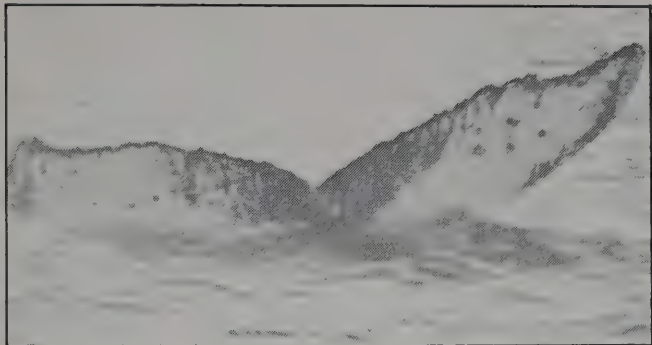
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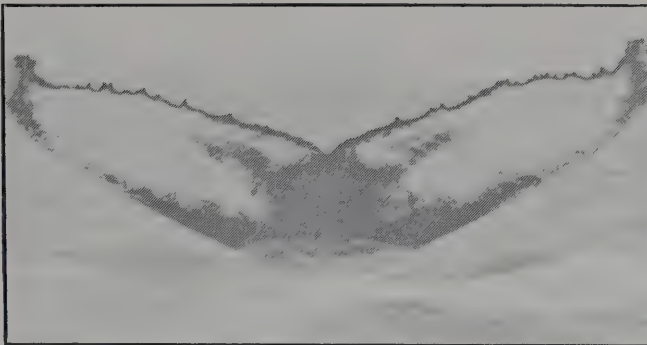
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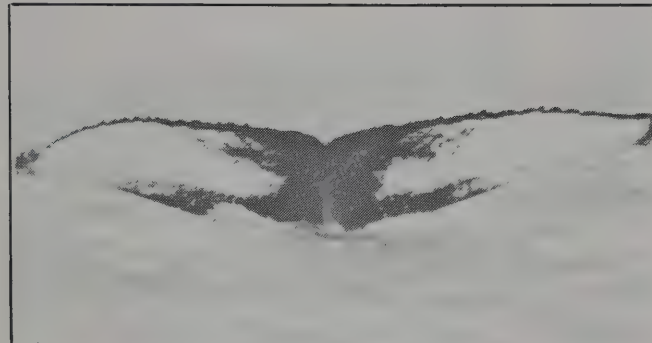
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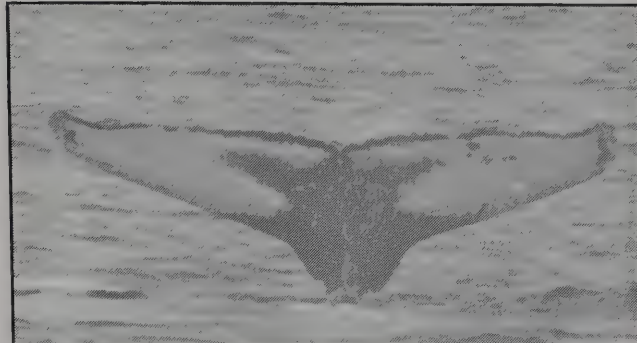
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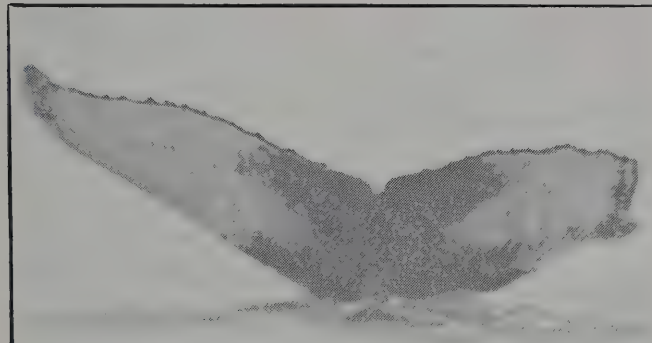
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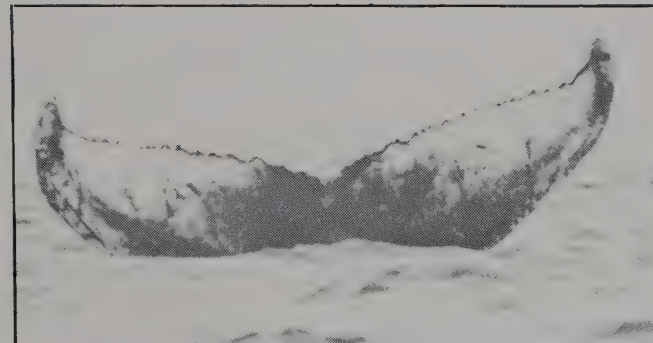
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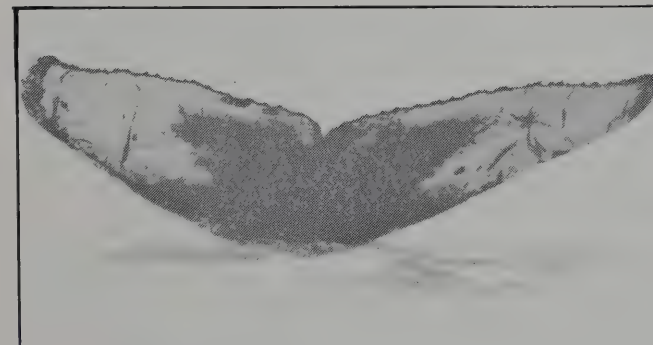
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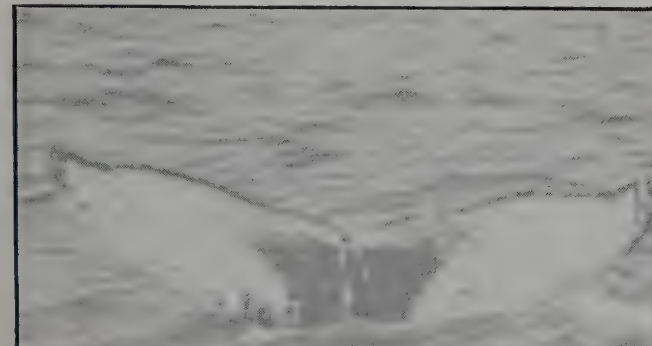
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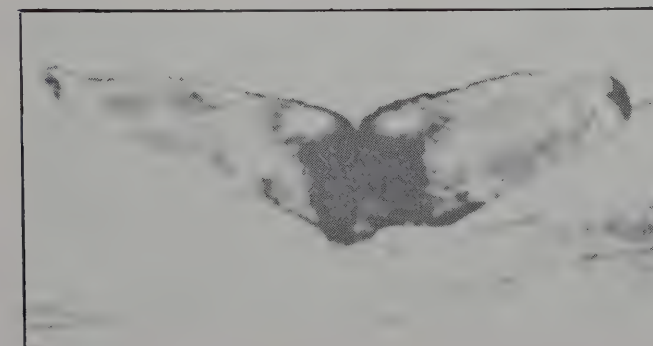
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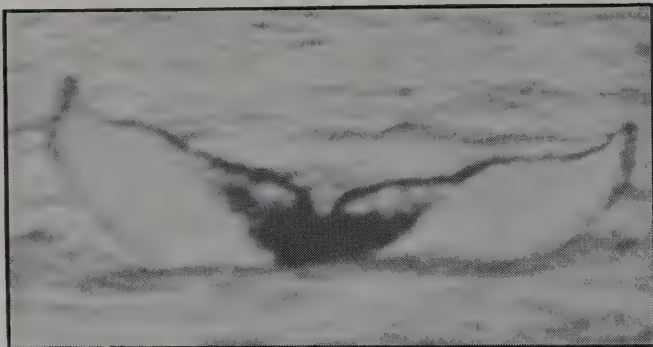
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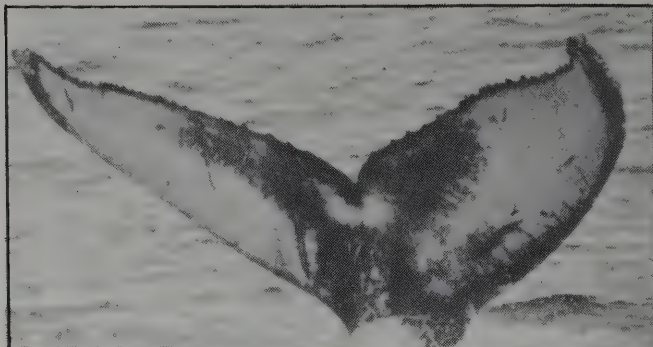
NEWFOUNDLAND 1979



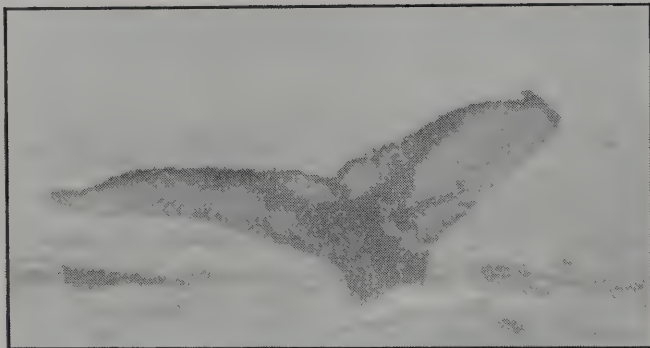
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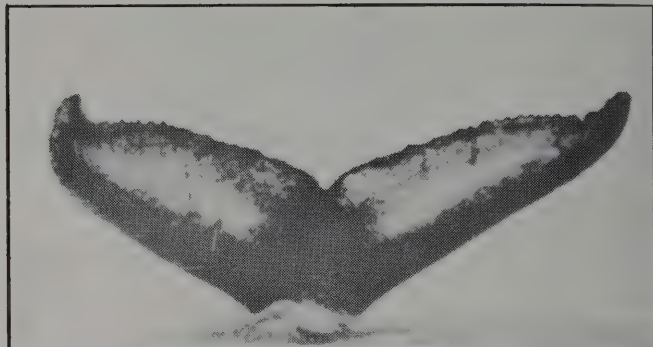
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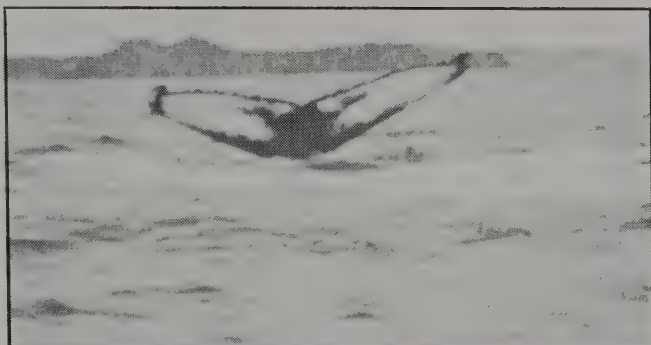
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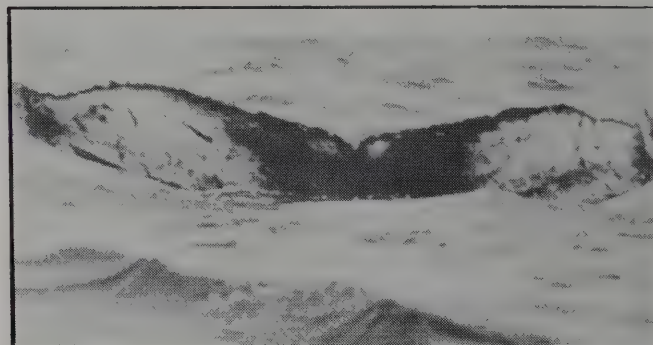
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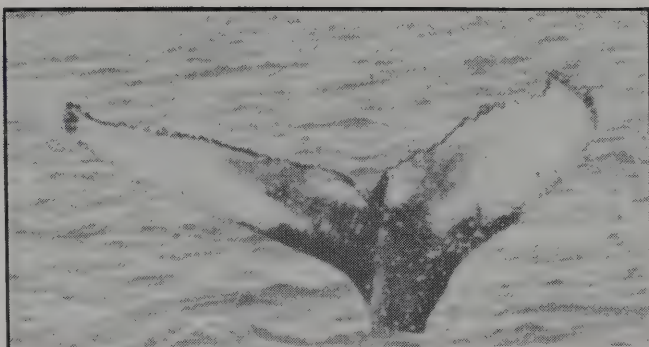
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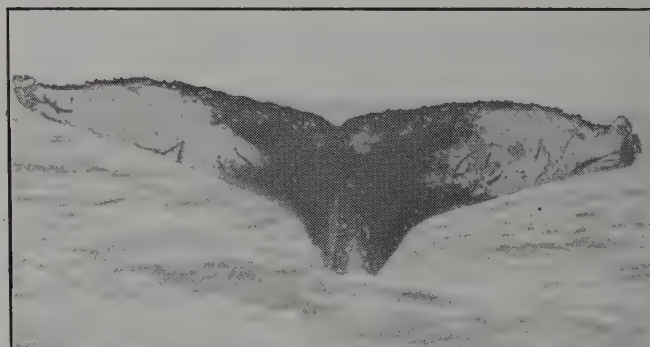
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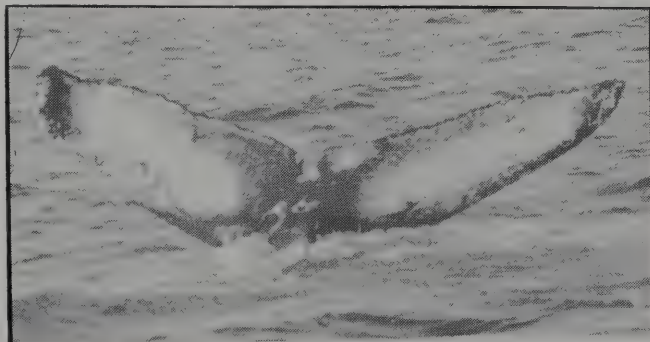
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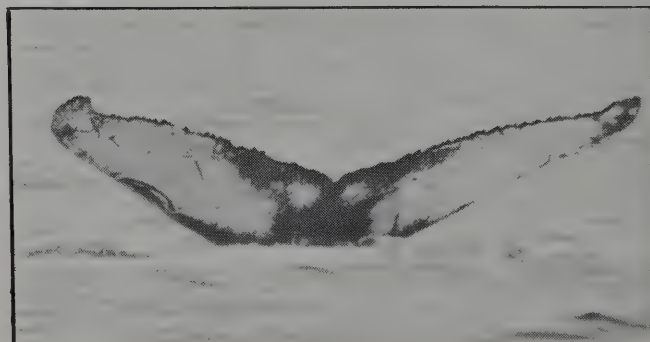
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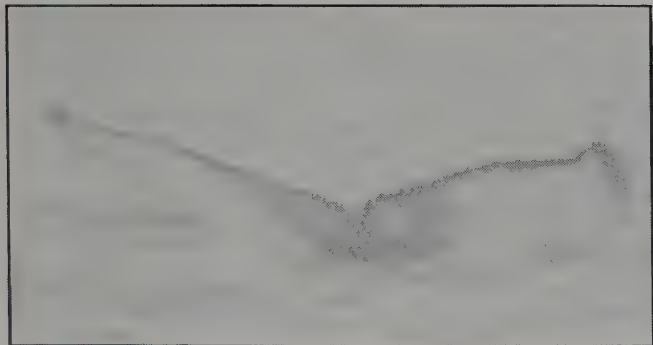


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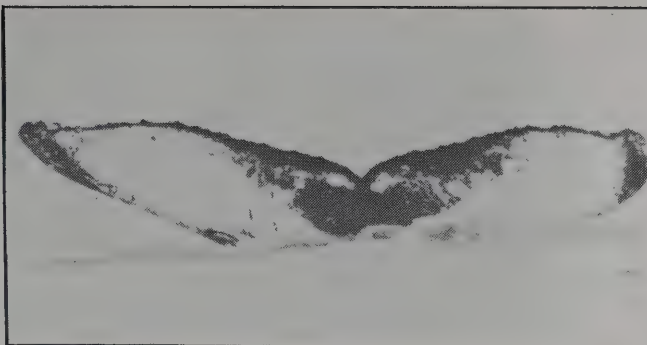




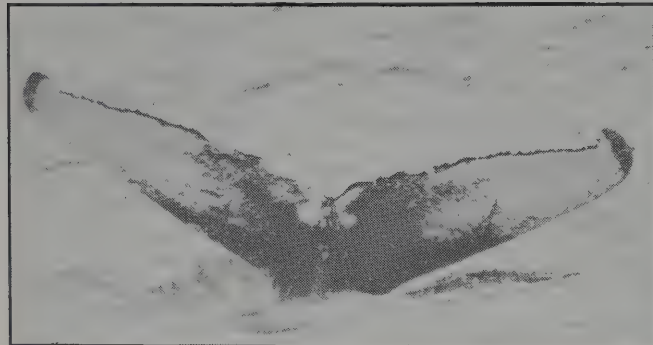
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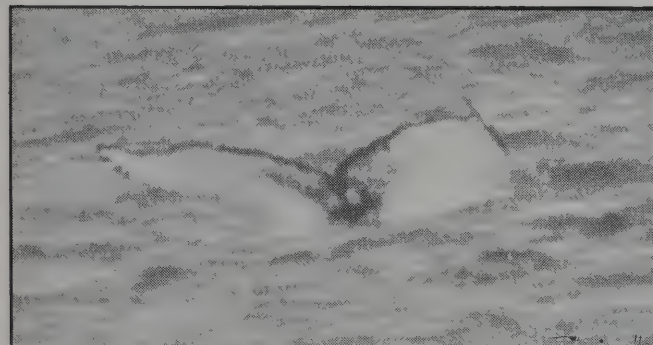
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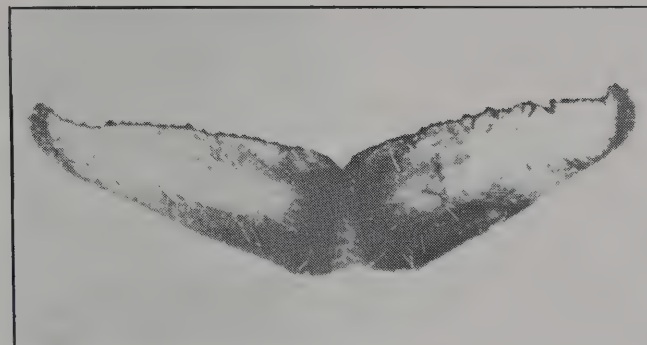
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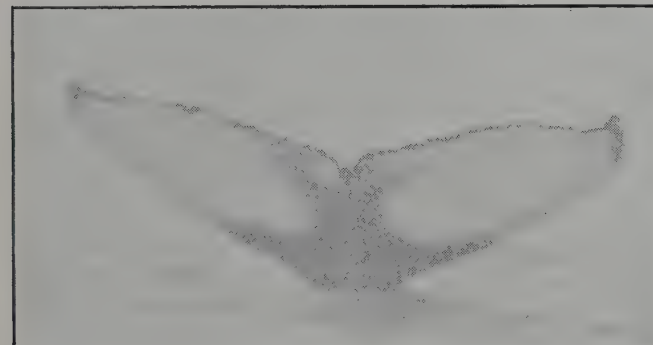
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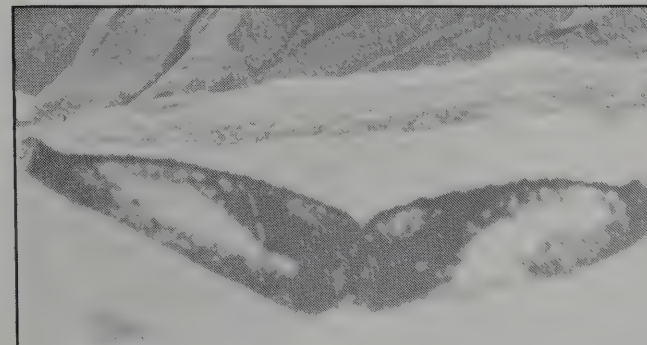
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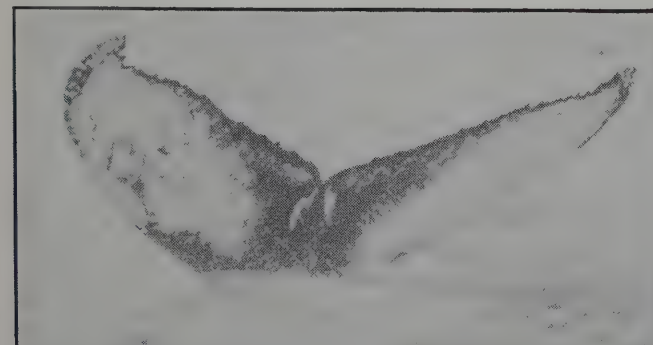
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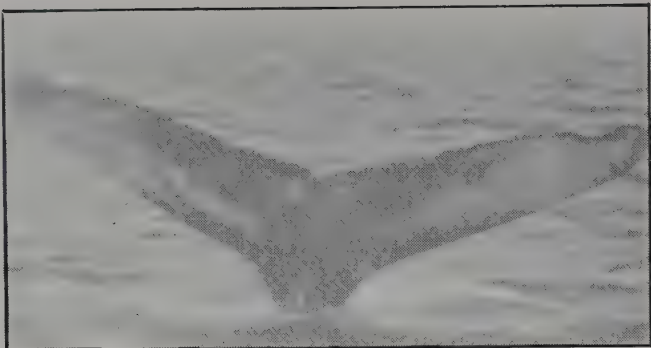
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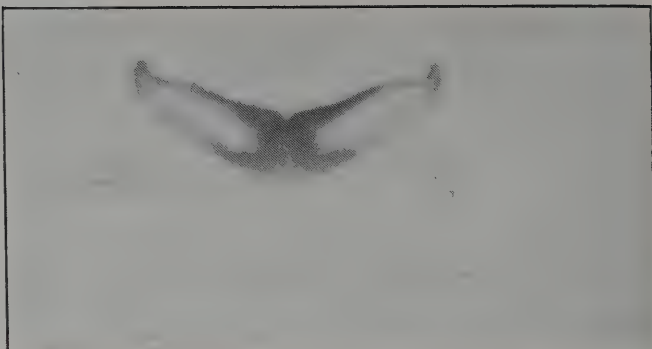
NEW  
FOUND  
LAND  
1979



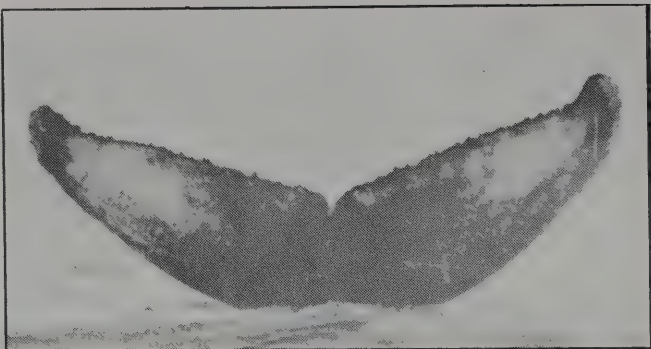
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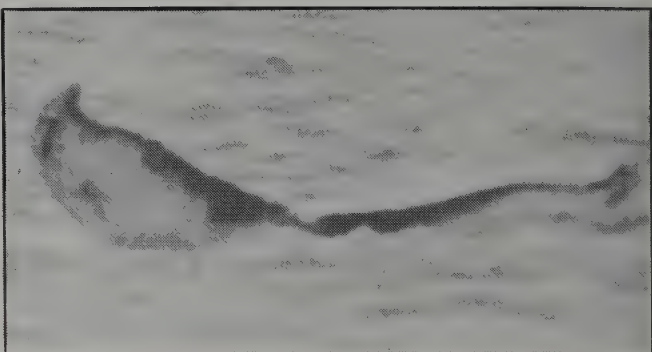
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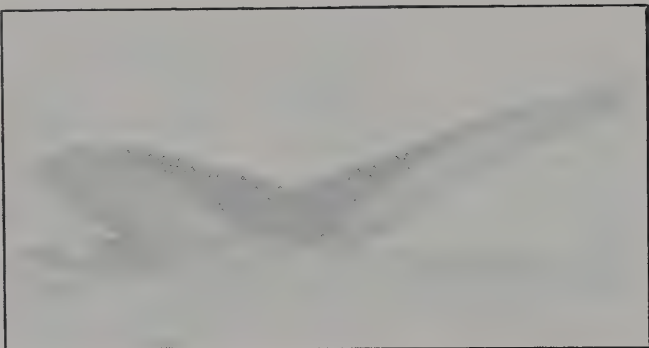
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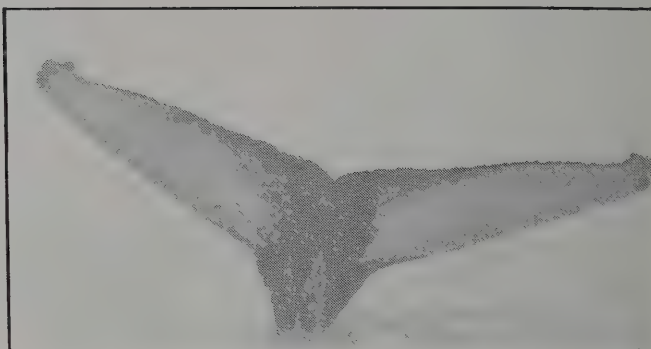
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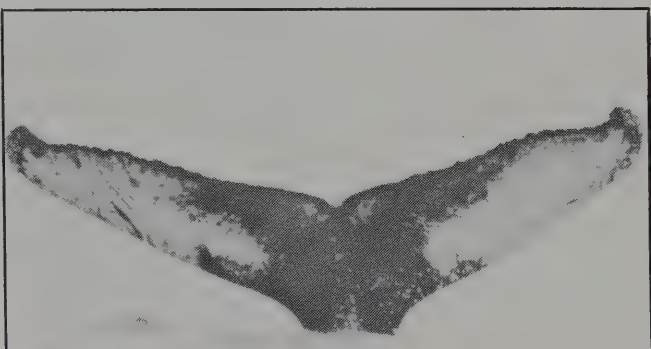
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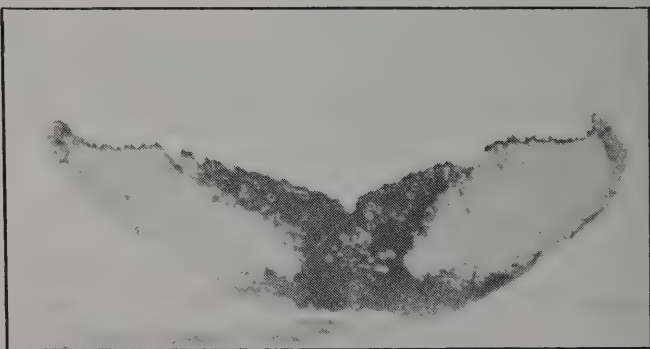
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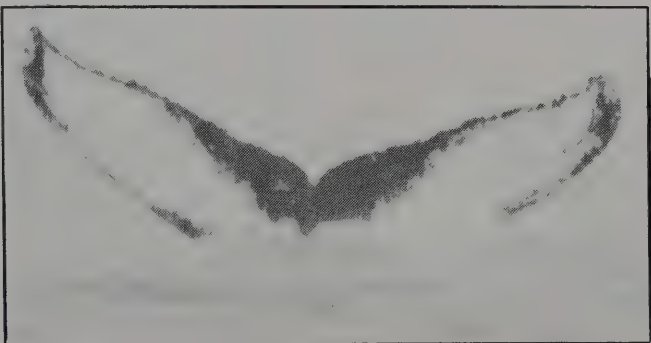
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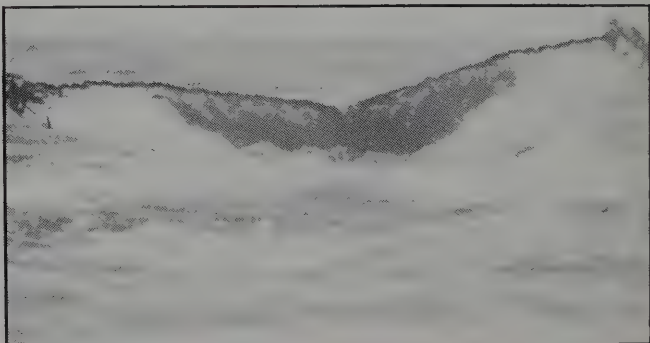
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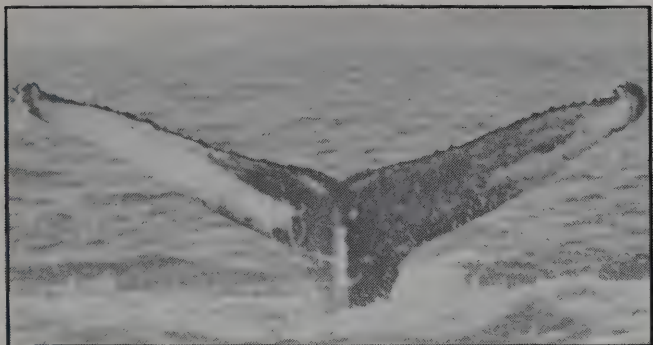
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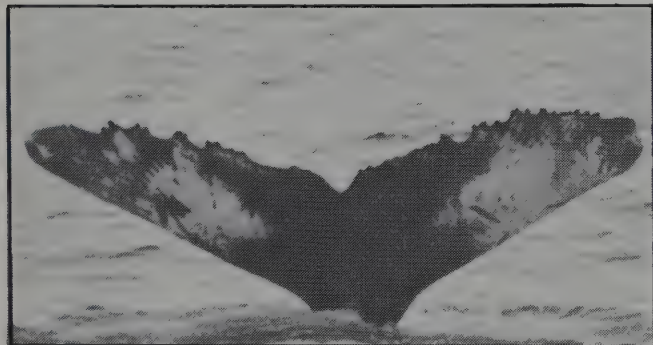
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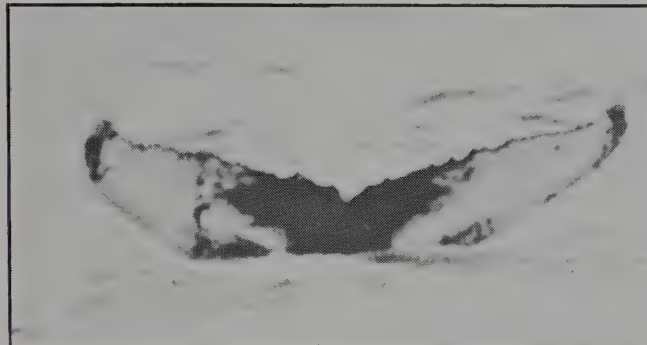
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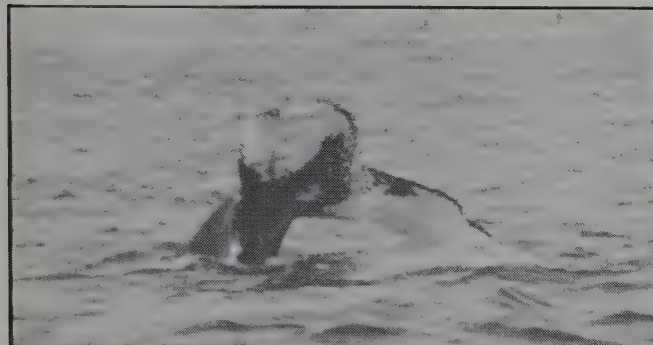
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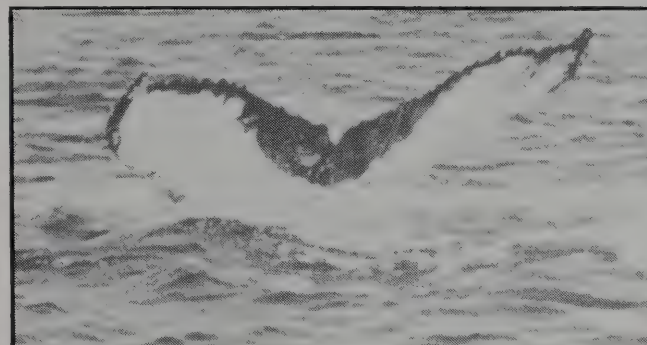
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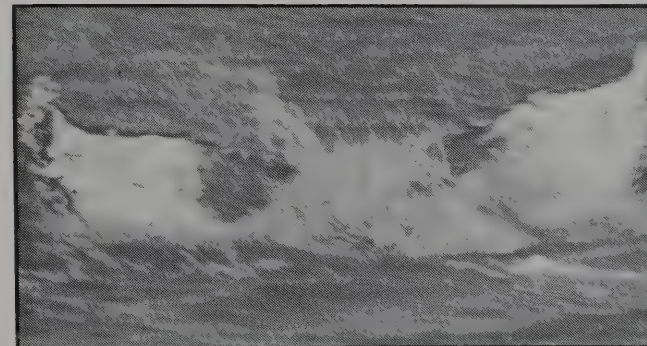
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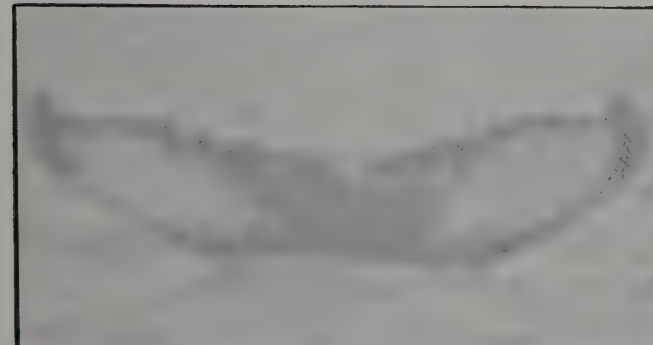
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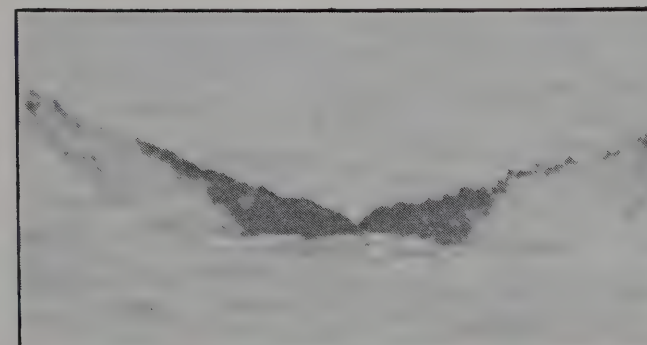
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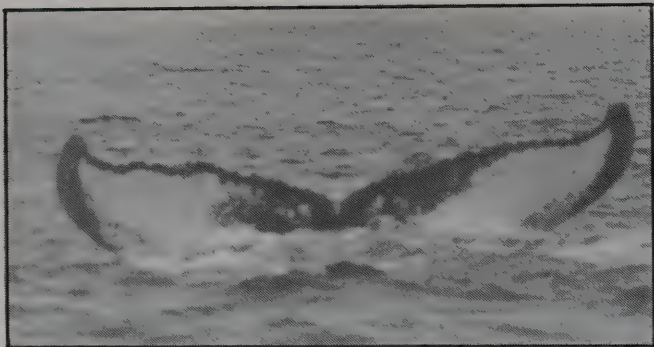
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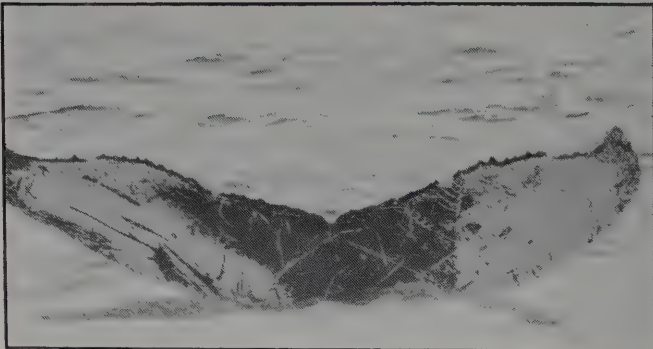
NEWFOUNDLAND 1979



1519



1854



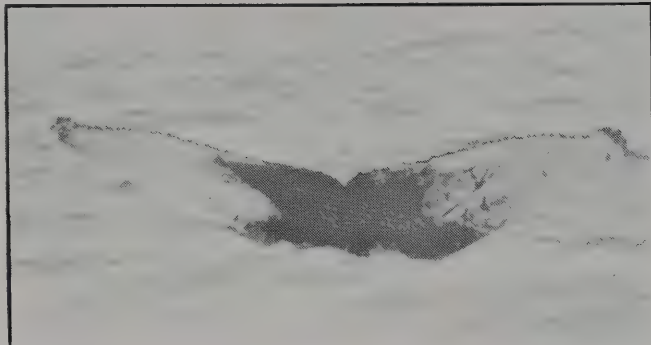
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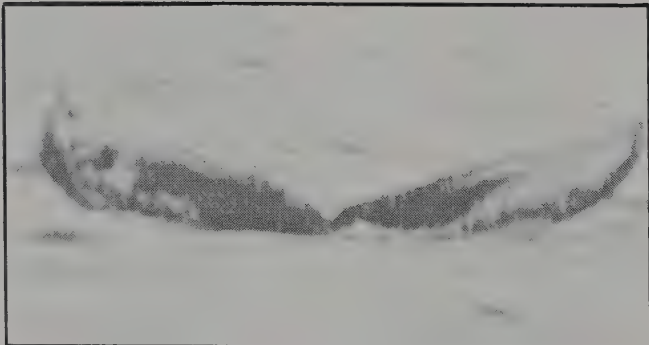
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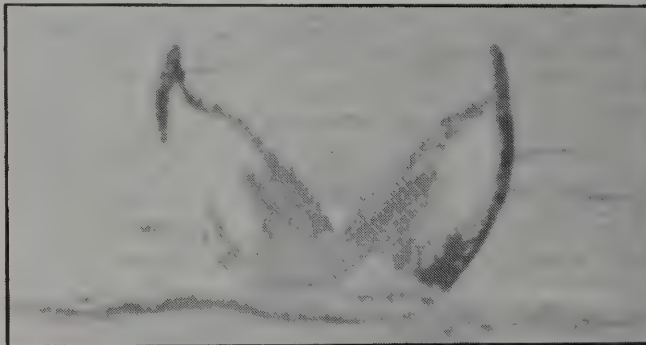
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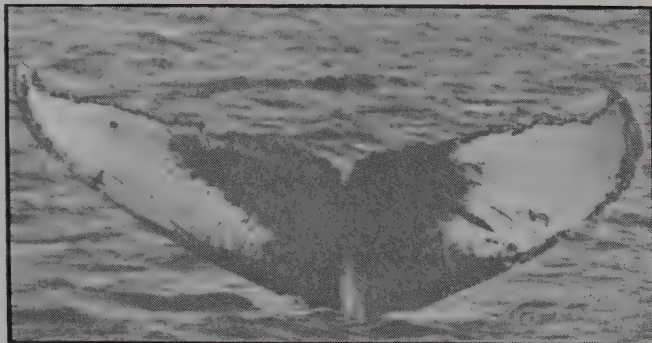
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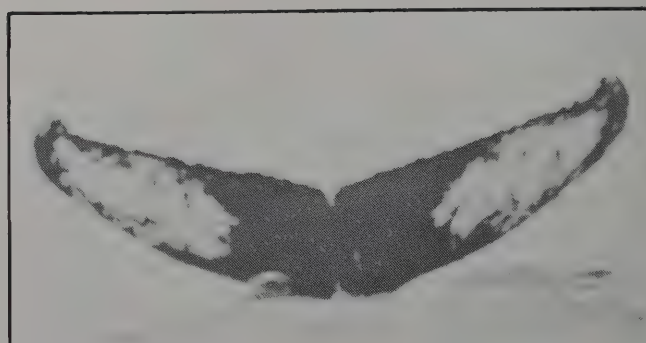
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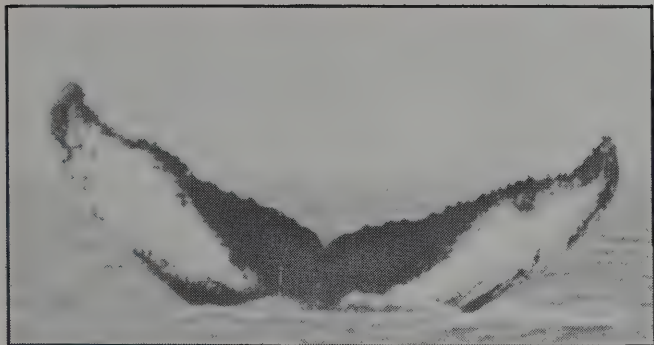


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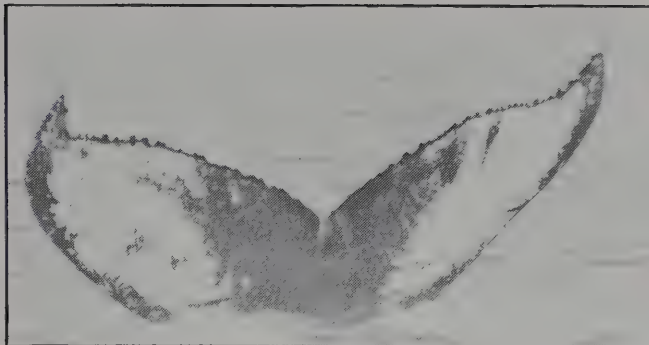




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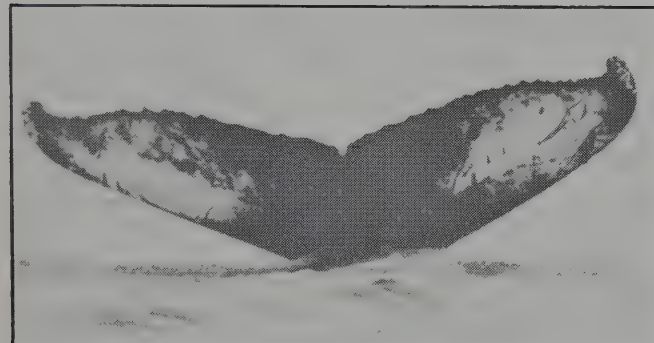
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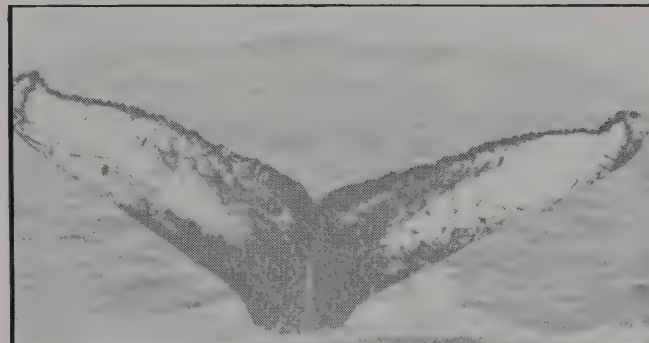
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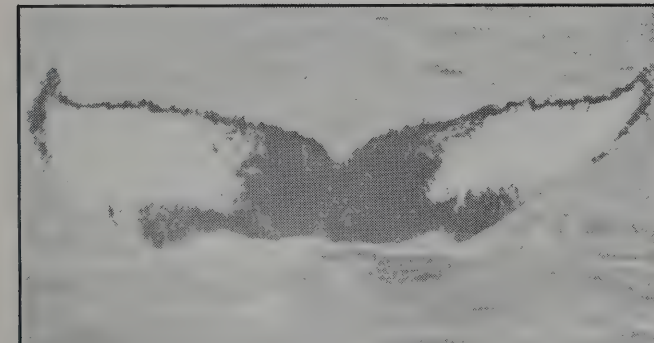
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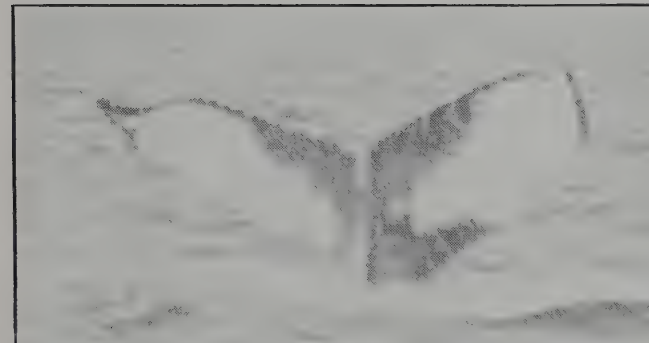
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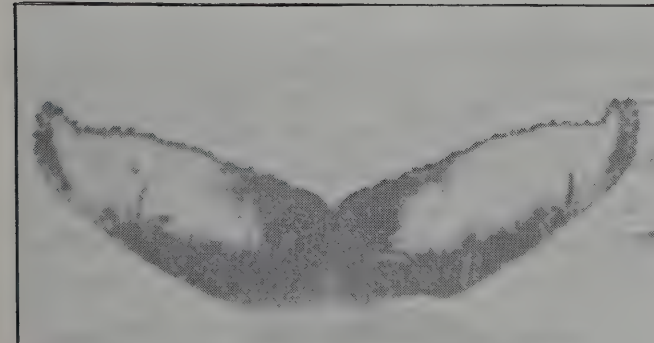
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1903



1665



1882



NEWFOUNDLAND 1979

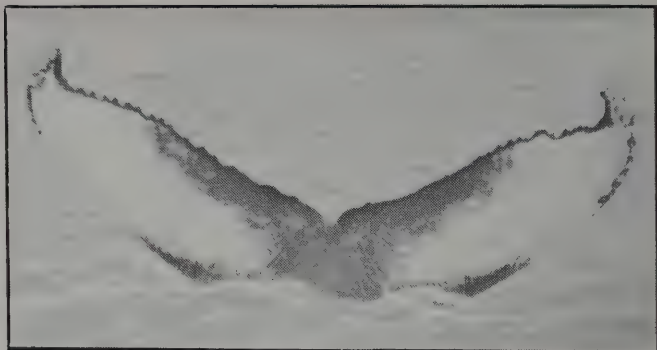


# NEW FOUND LAND 1979

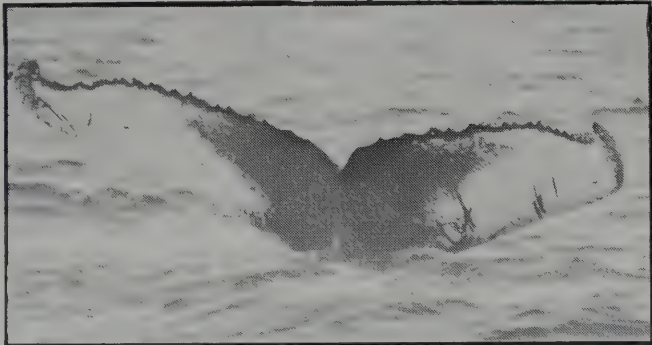
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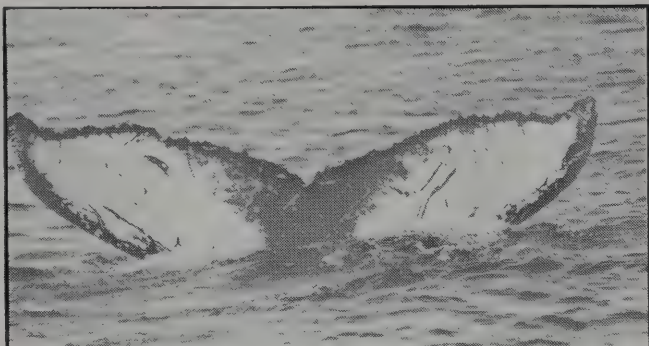
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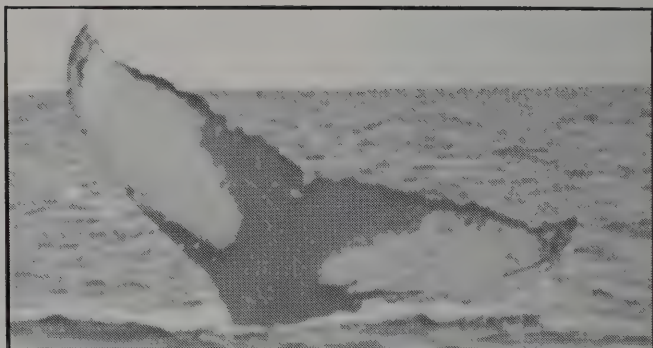
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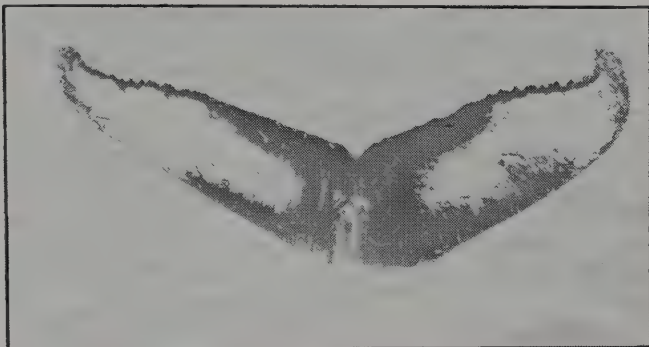
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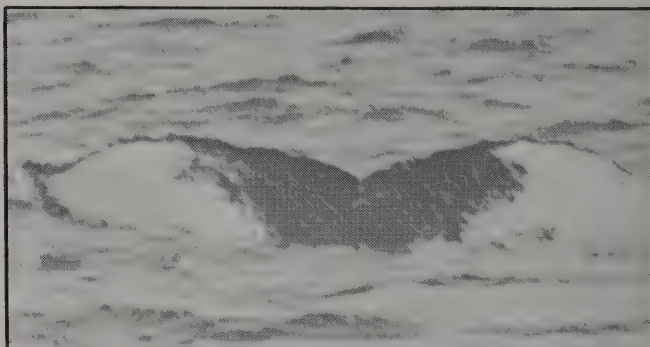
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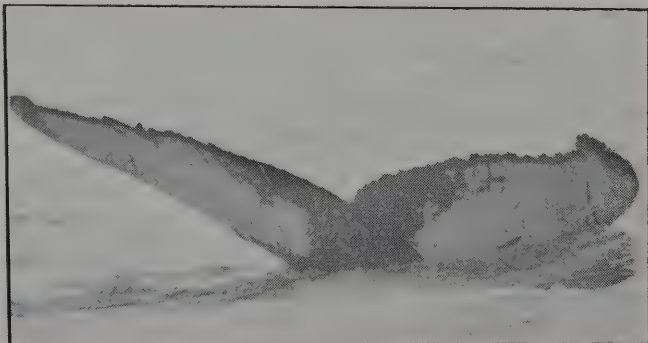
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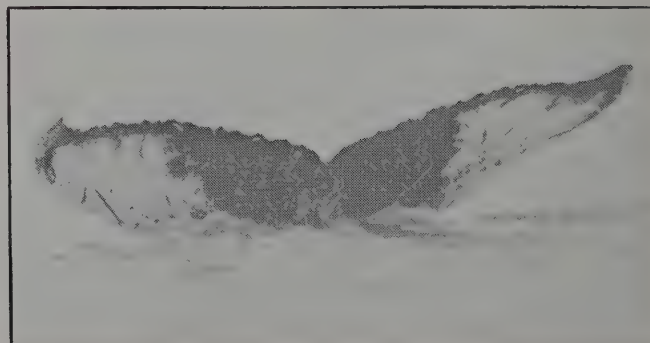
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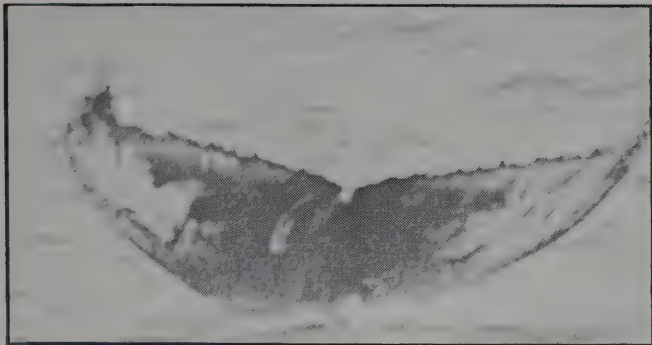


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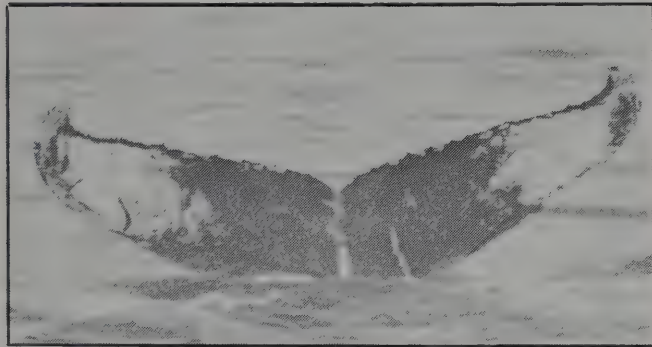
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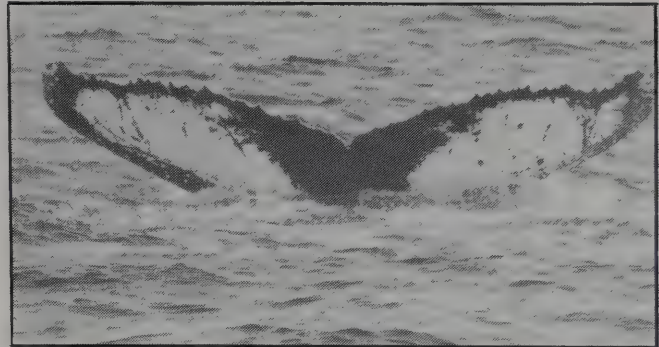
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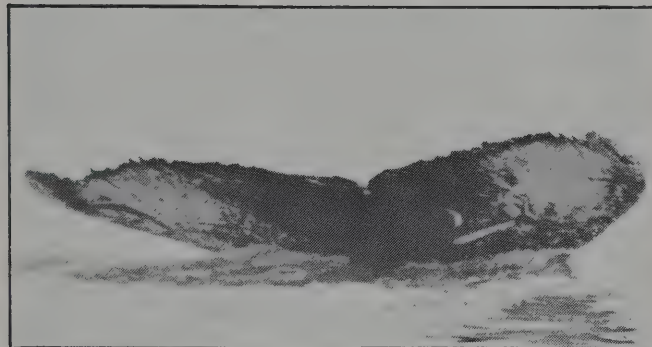
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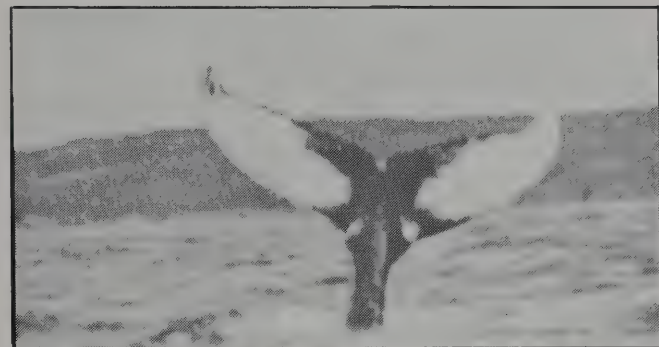
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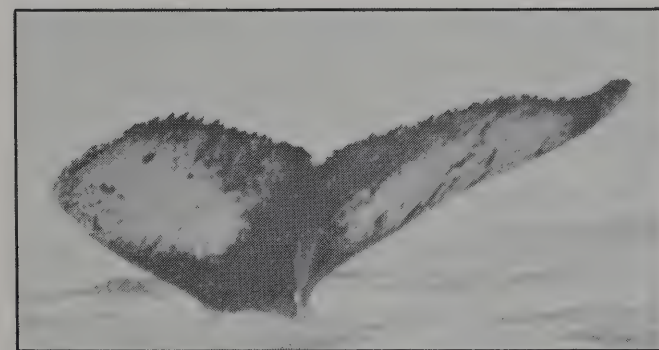
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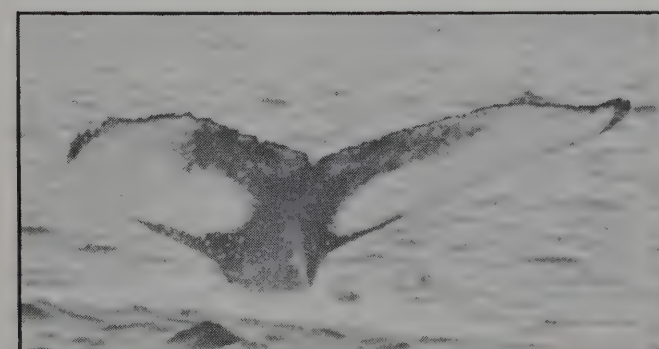
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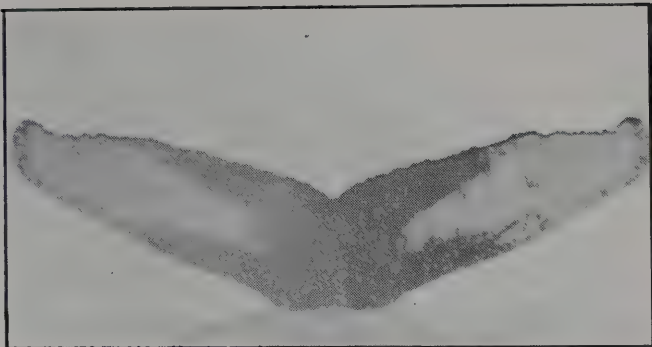
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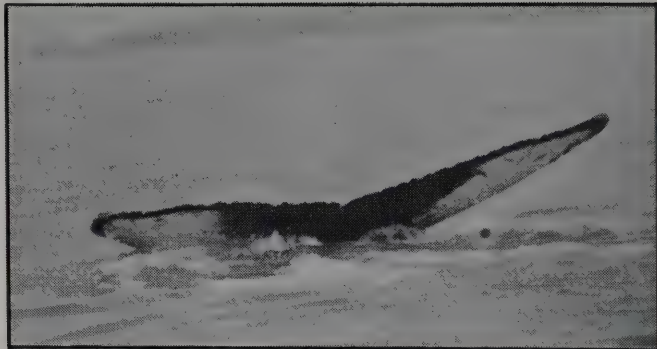
NEWFOUNDLAND 1979



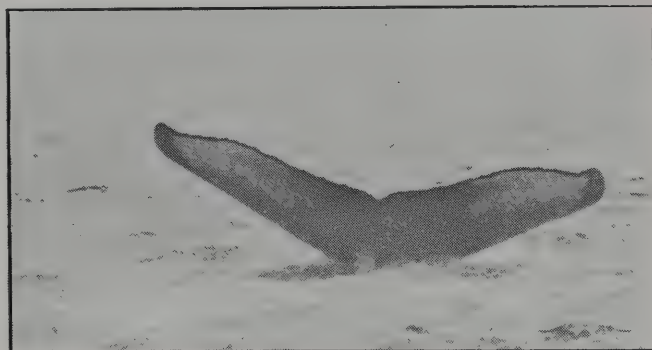
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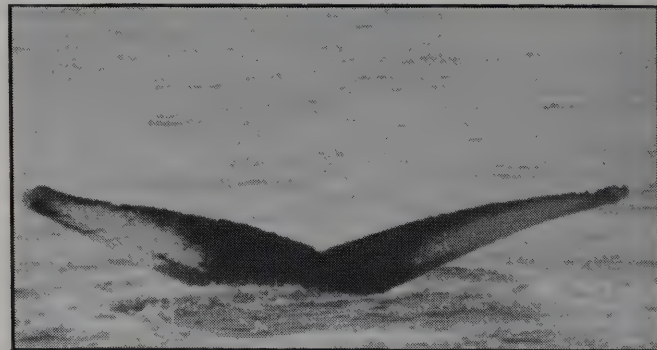
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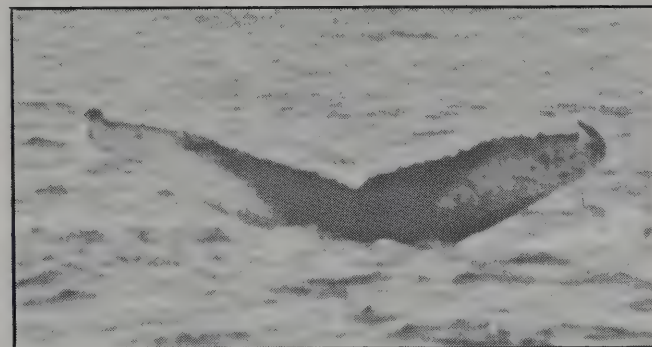
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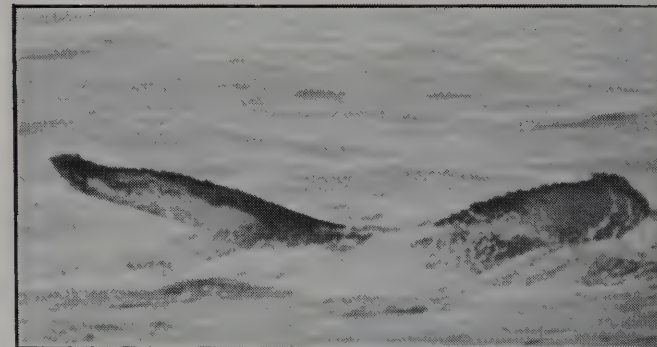
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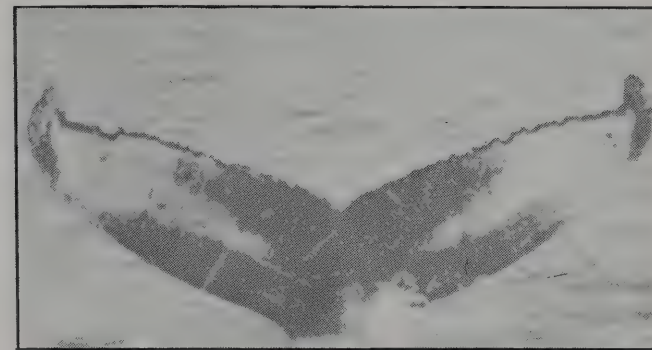
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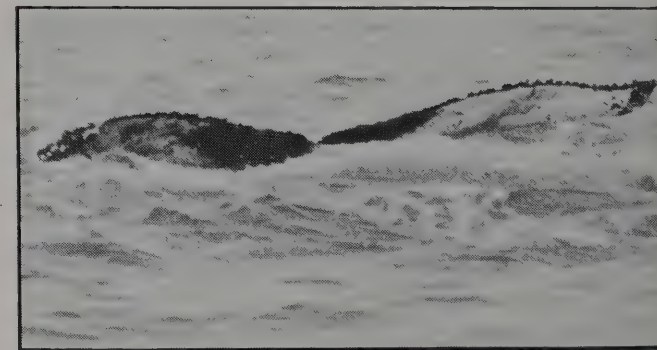
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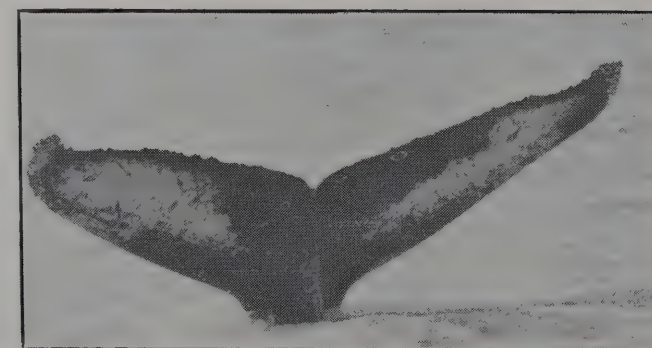
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1956



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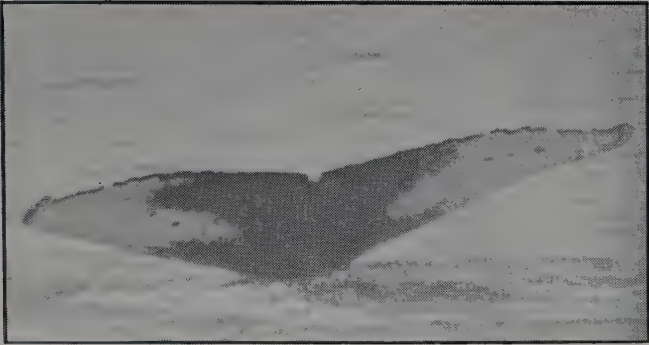


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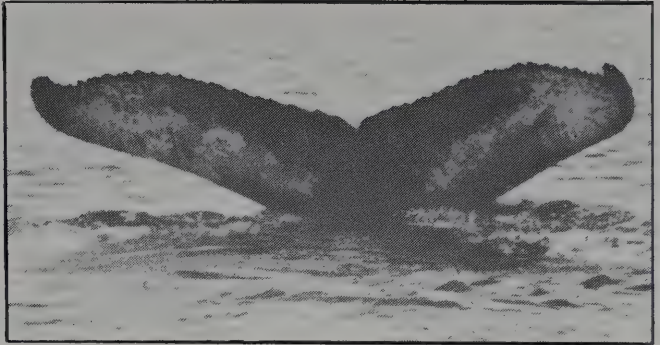




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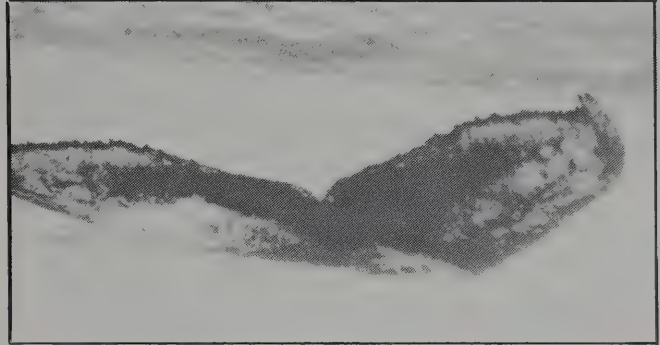
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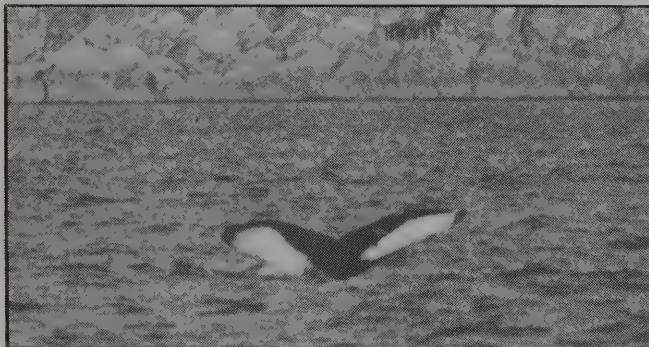
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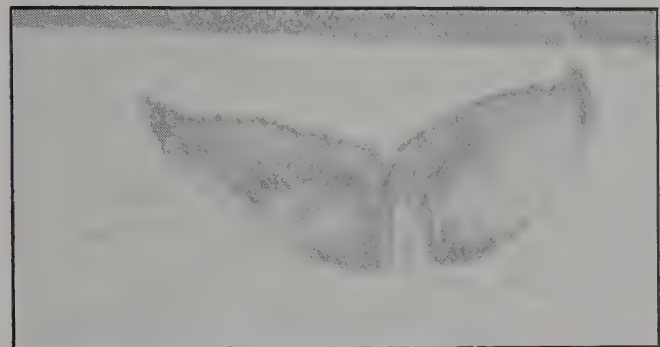
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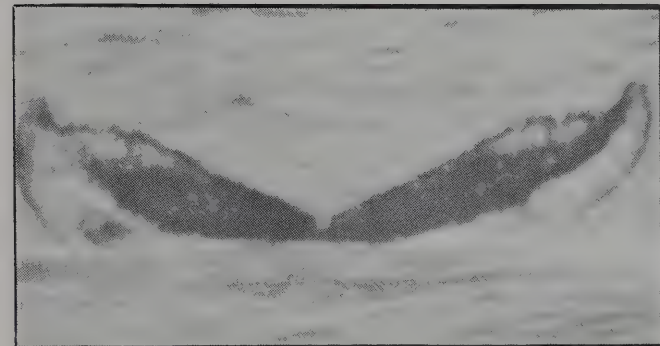
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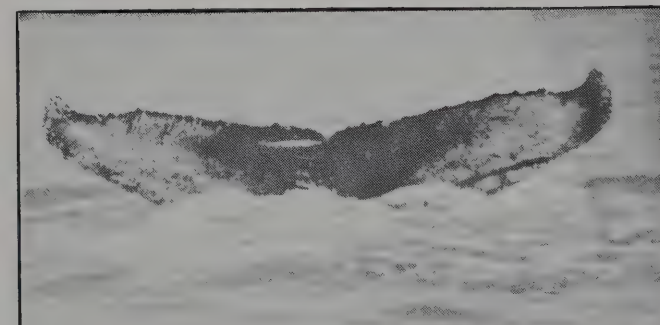
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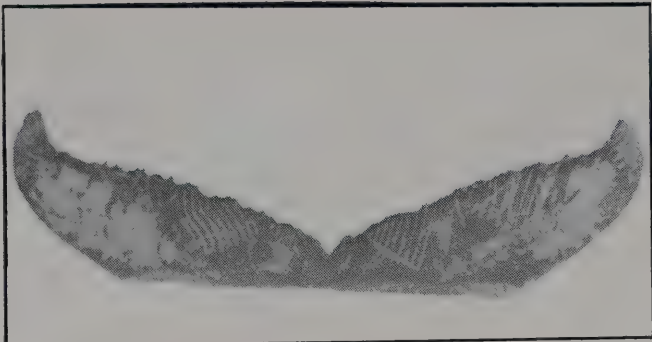
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NEWFOUNDLAND 1979



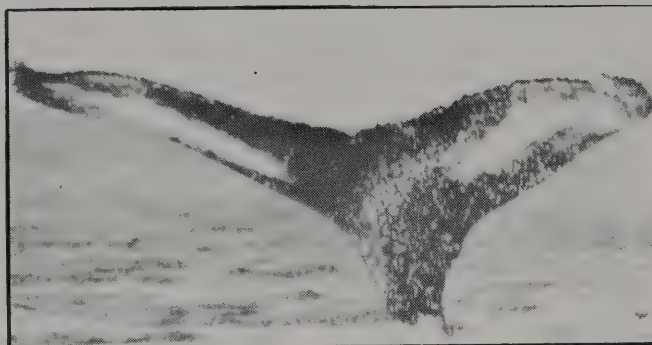
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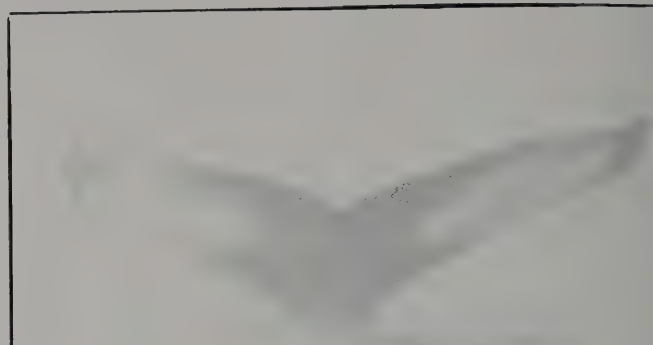
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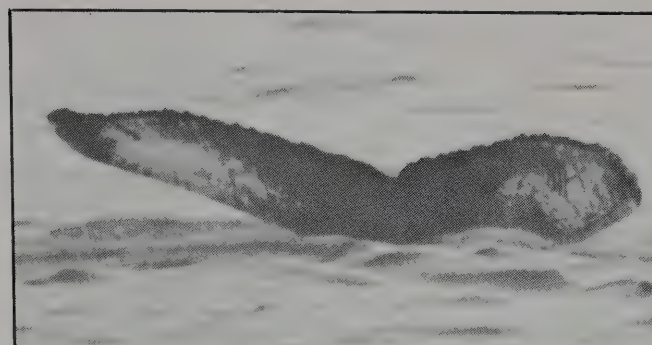
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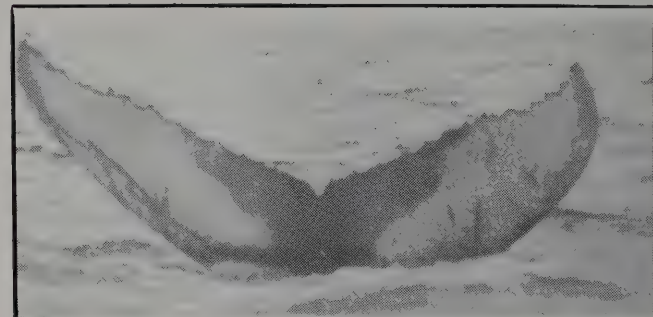
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1716



1617



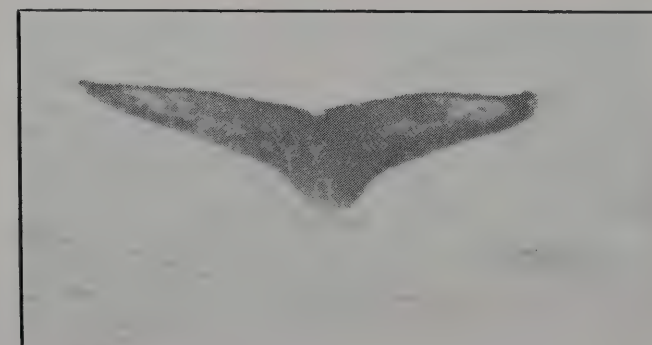
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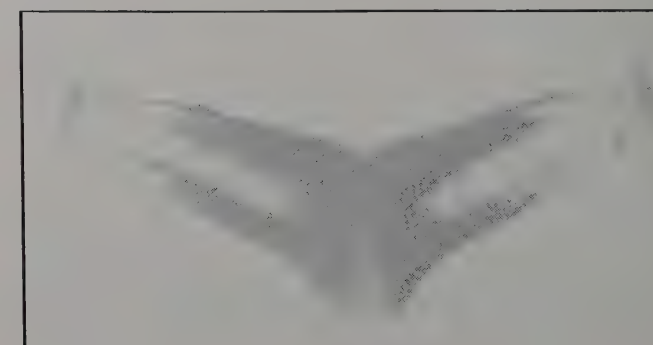
1901



1789

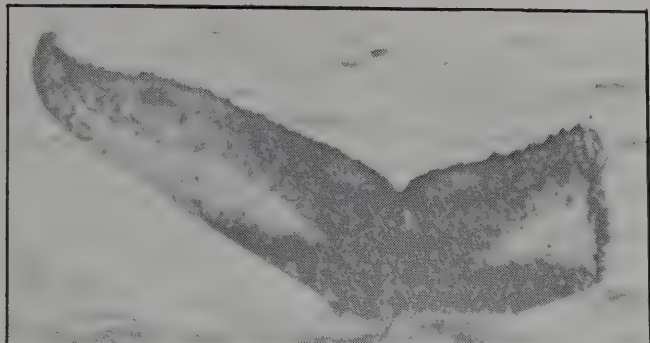


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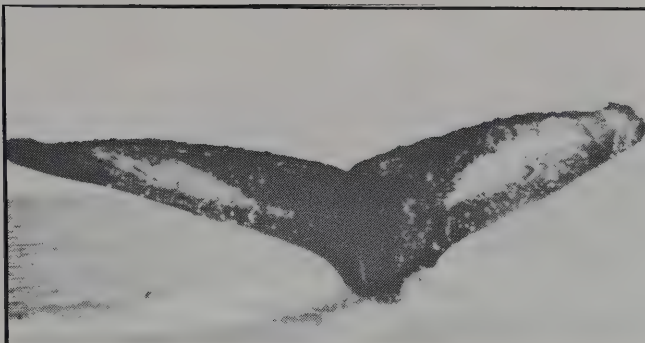




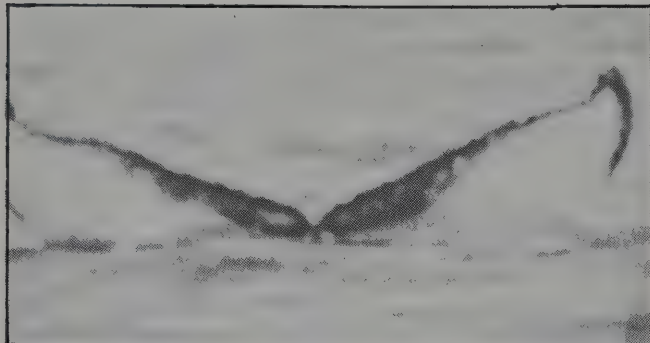
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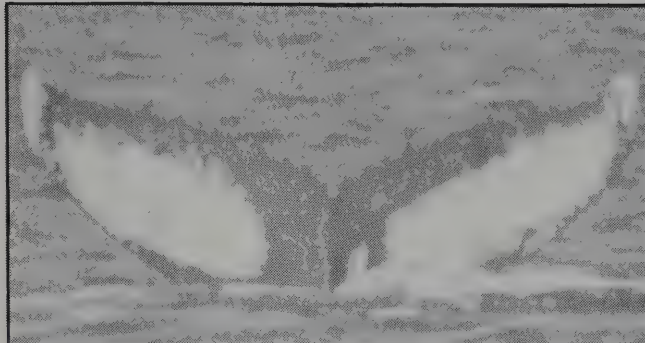
1942



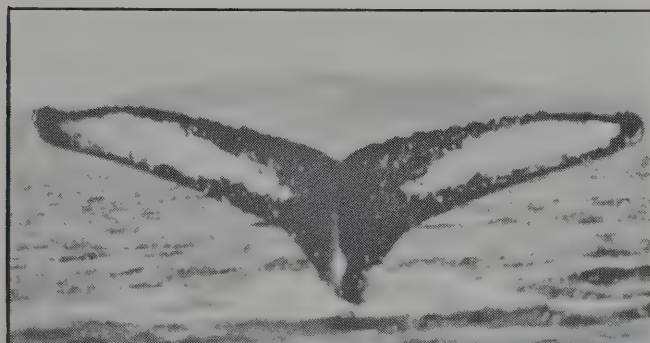
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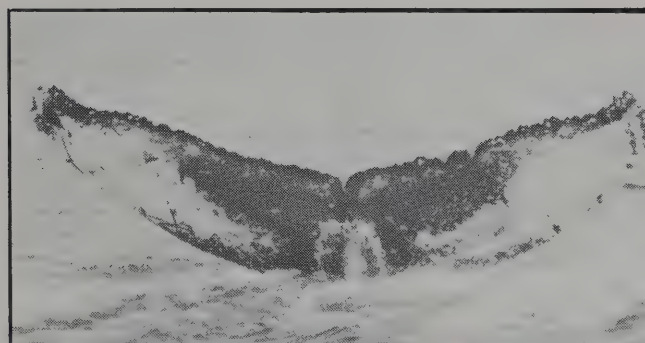
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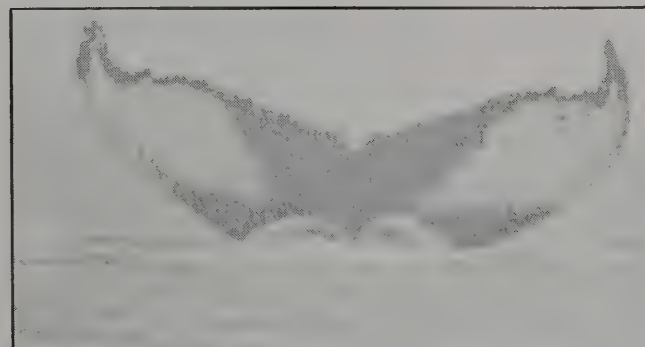
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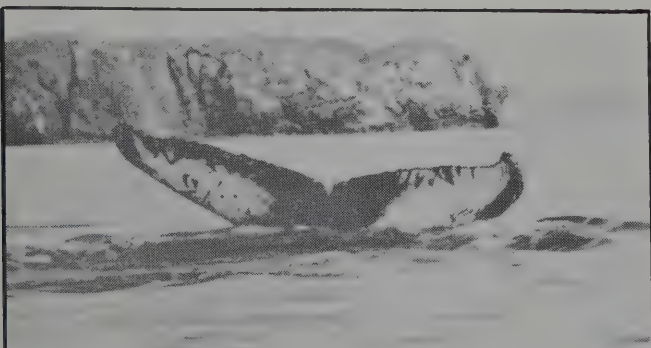
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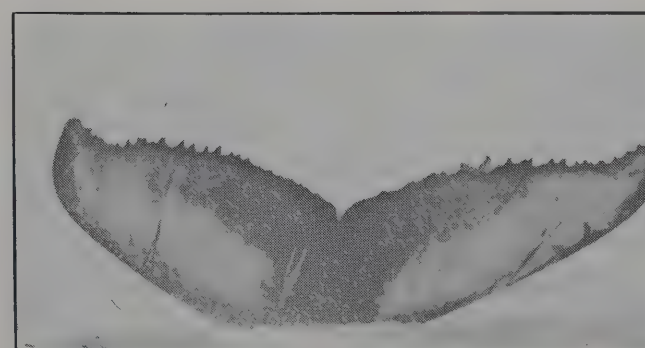
1958



1753



1607



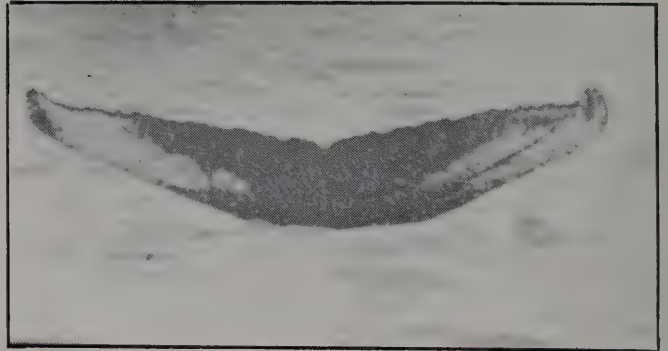
NEWFOUNDLAND 1979



1931



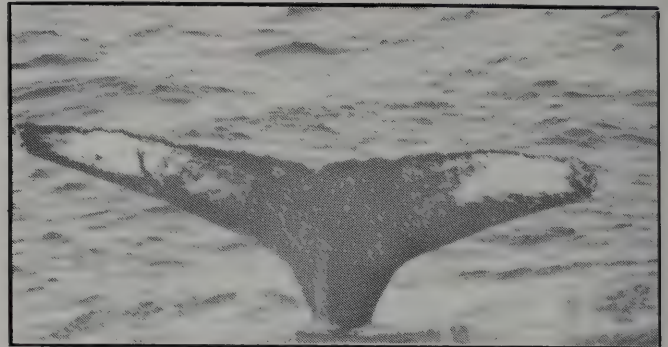
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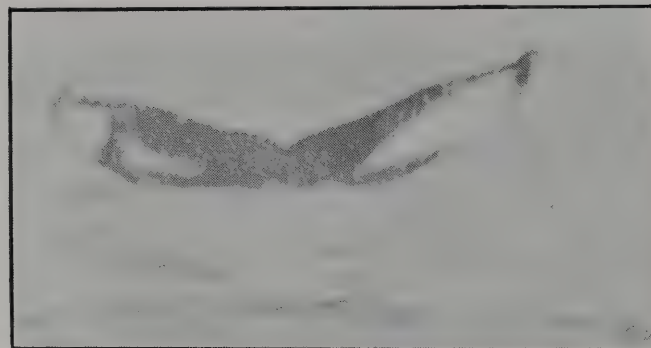
1935



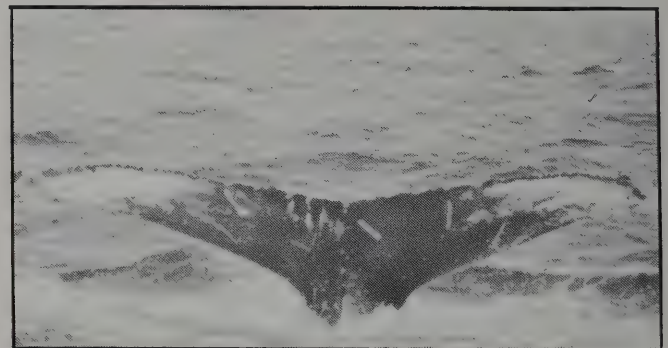
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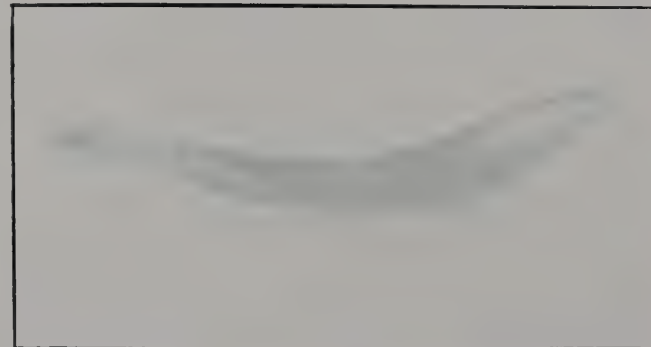
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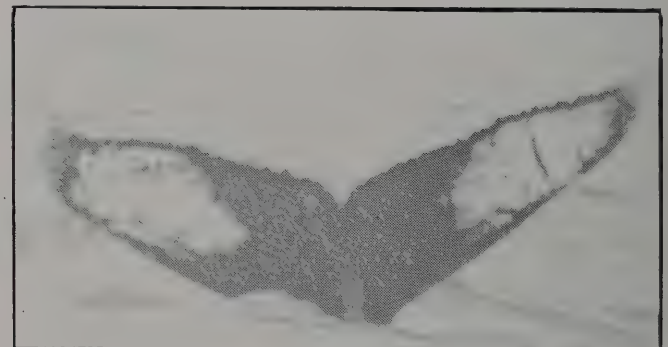
1536



1963



1623



1937



1731





1795



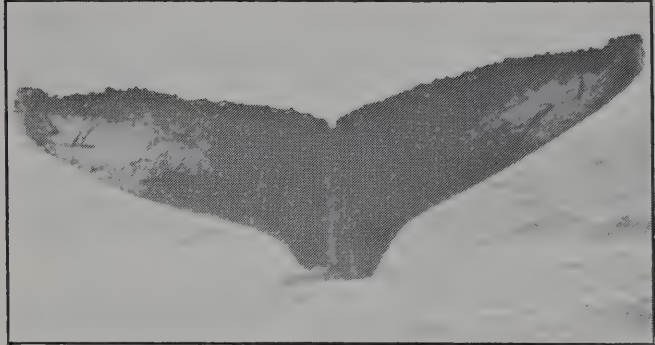
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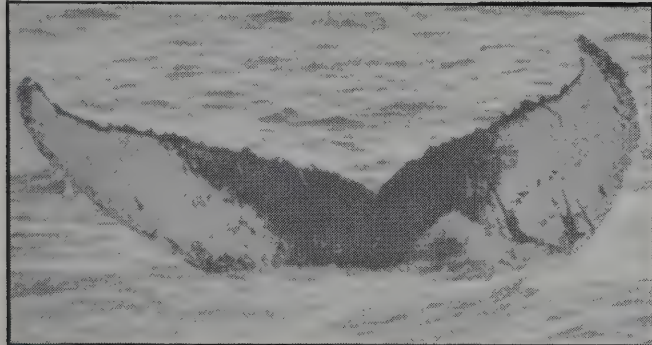
1962



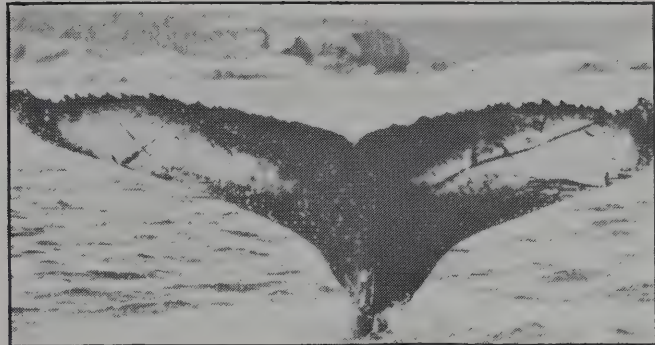
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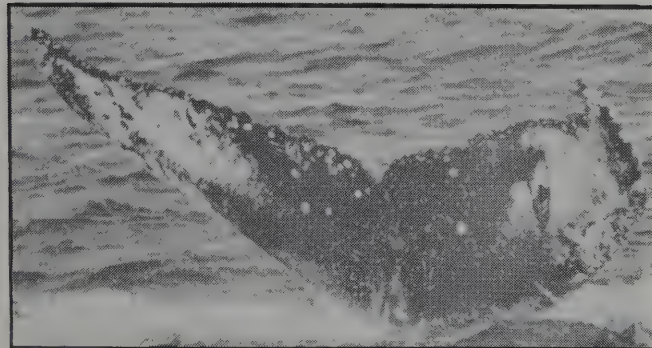
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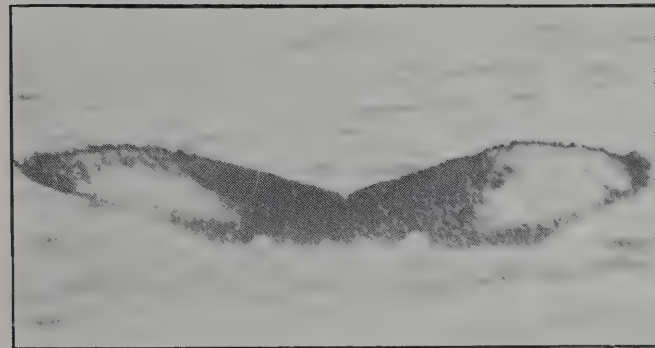
1933



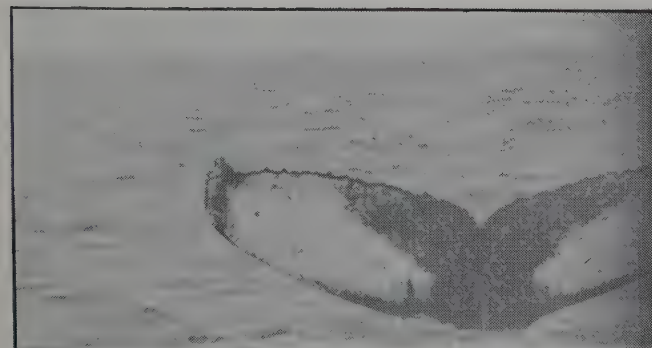
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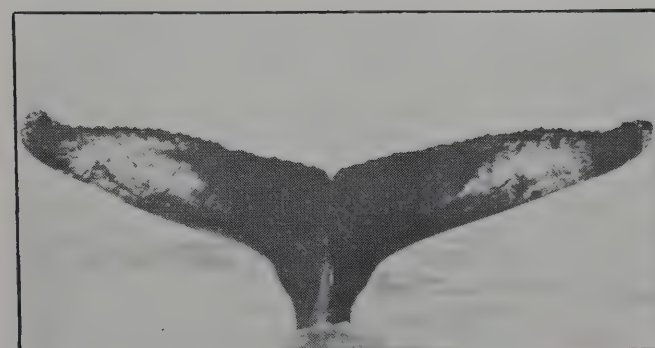
1637



1849



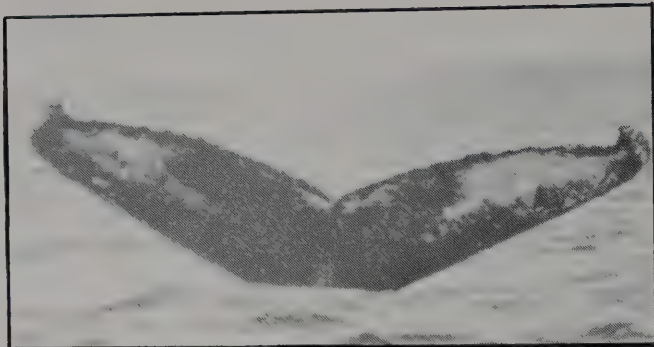
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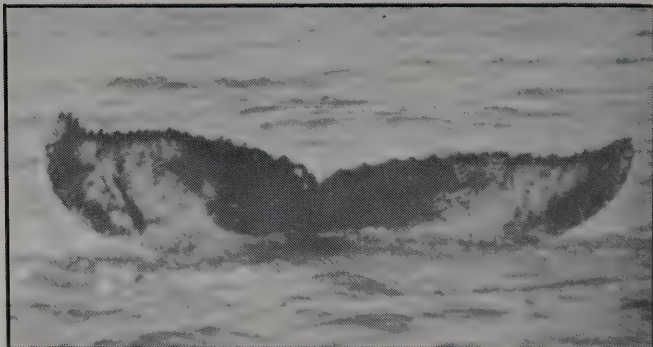
NEWFOUNDLAND 1979



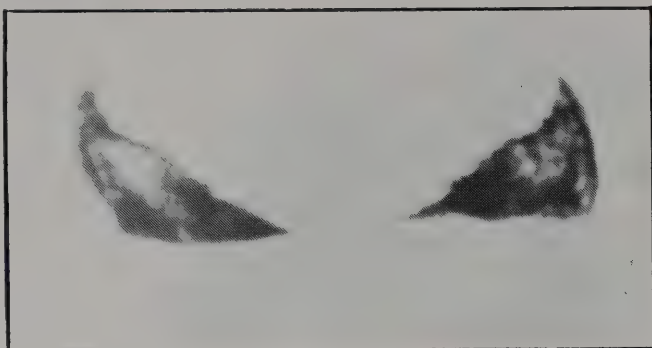
1638



1778



1808



1801



1978



1782



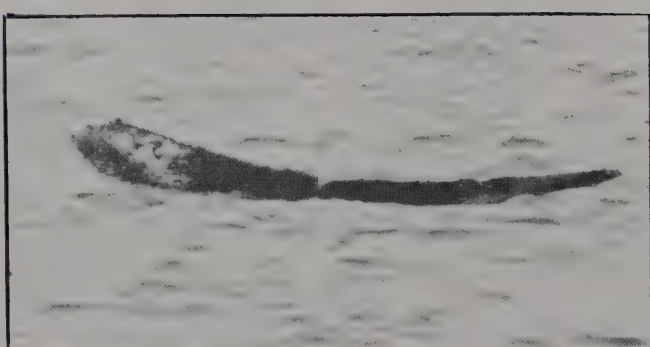
1943



1800



1685

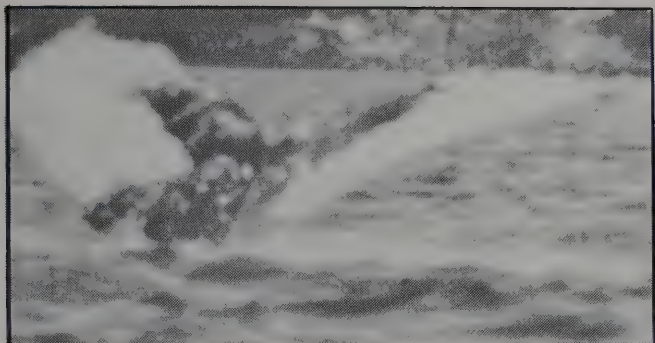


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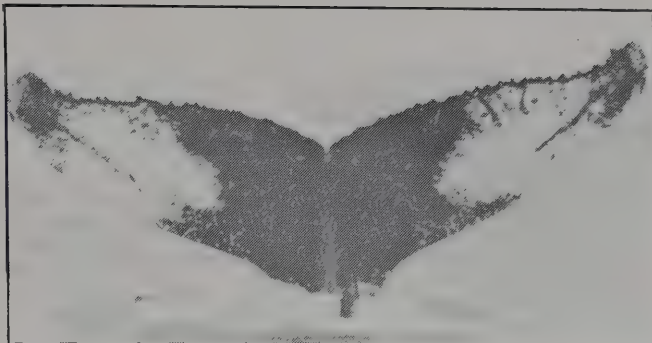




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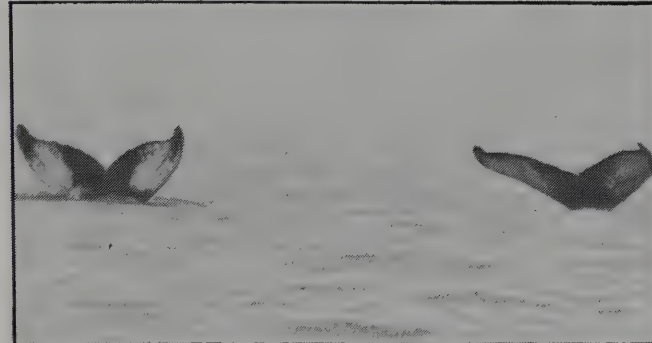
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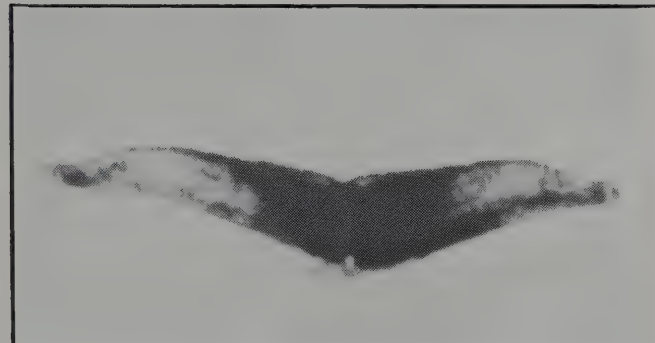
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1871-LEFT 1928-RIGHT



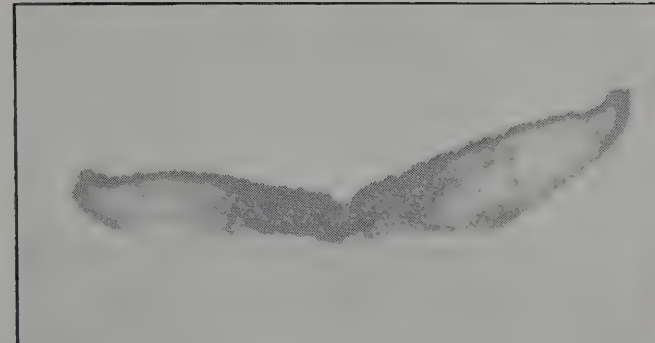
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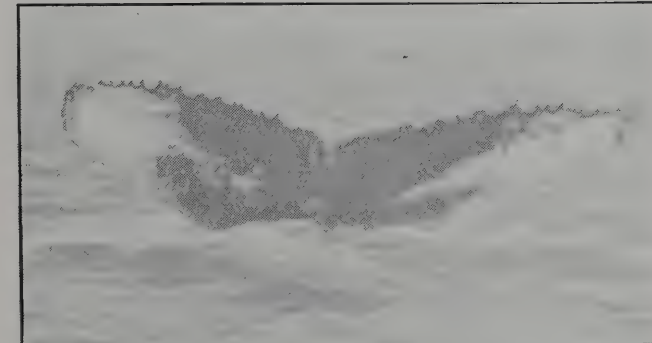
1582-LEFT 1765-RIGHT



1961



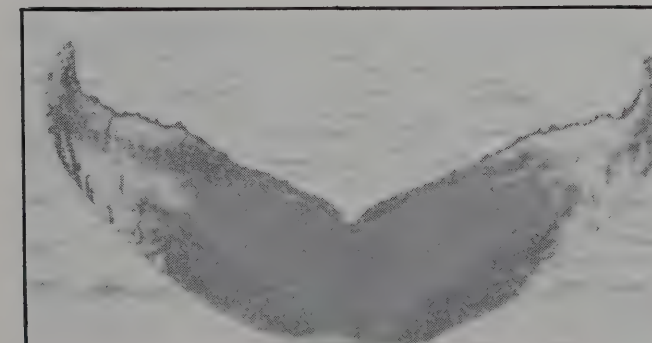
1964



1620

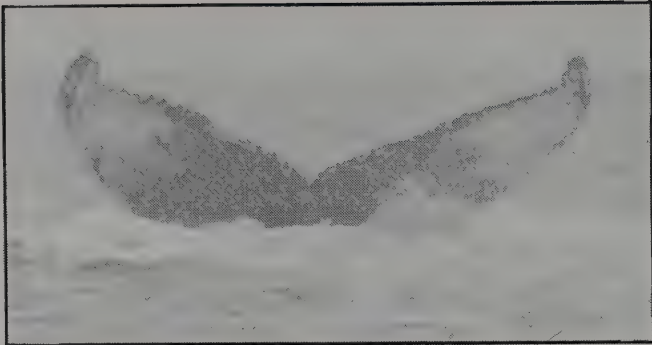


1772





1960



1683



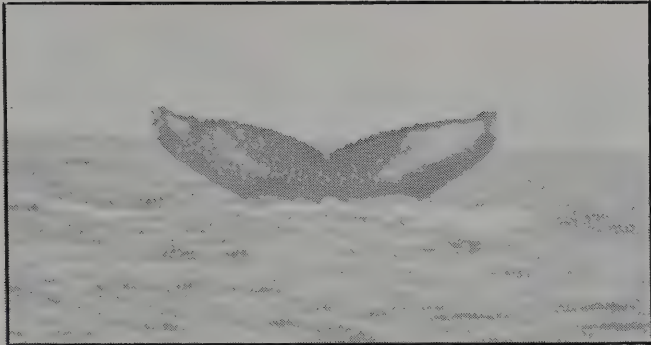
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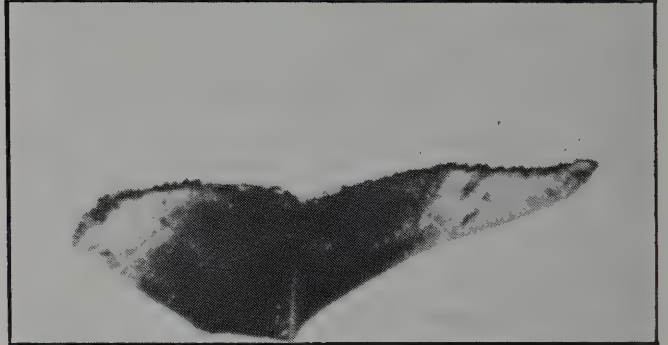
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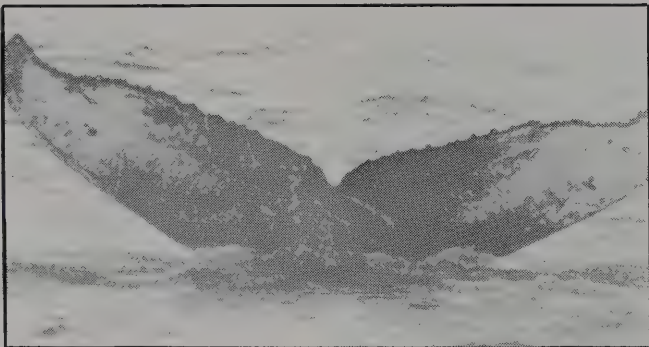
1967



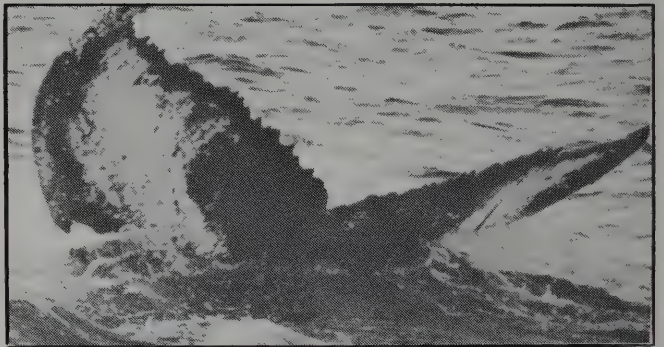
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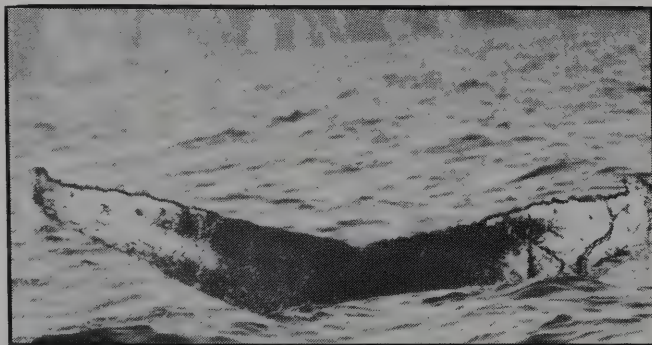
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1797



1507

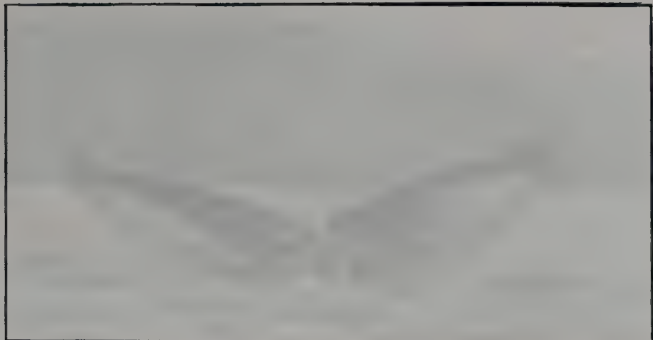


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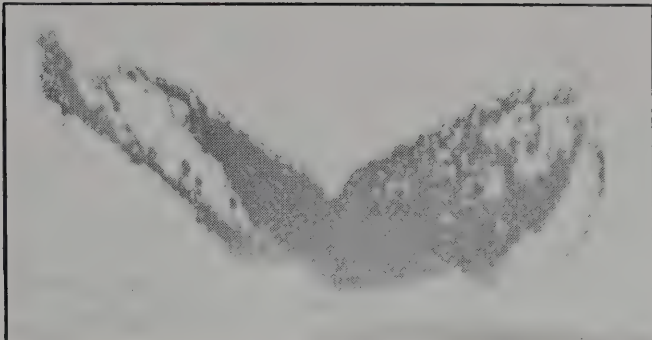




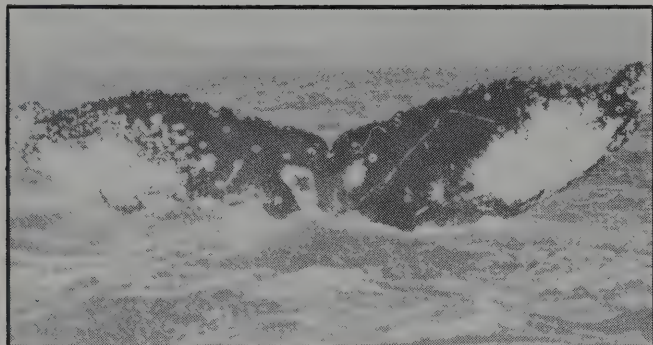
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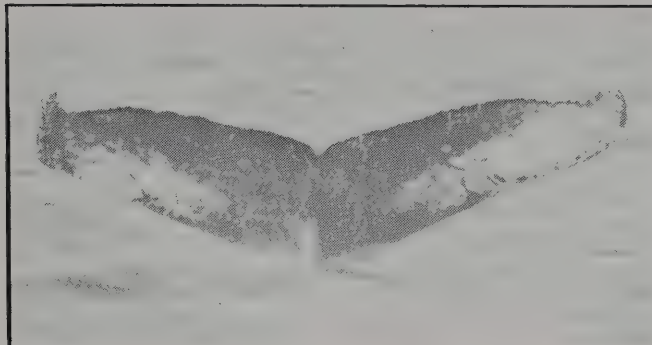
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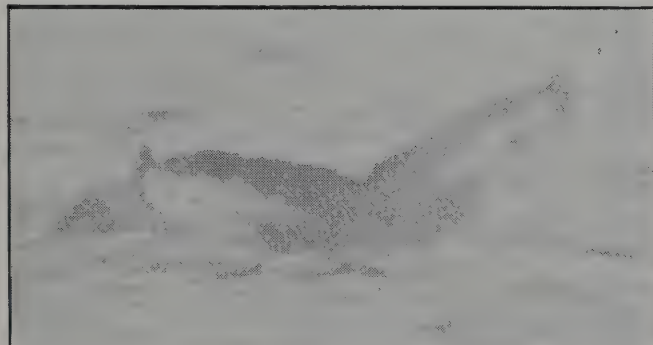
1939



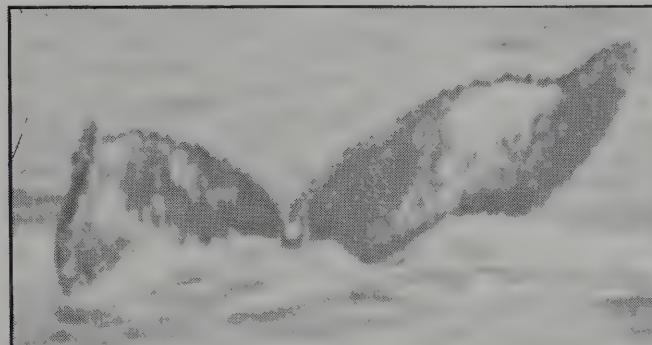
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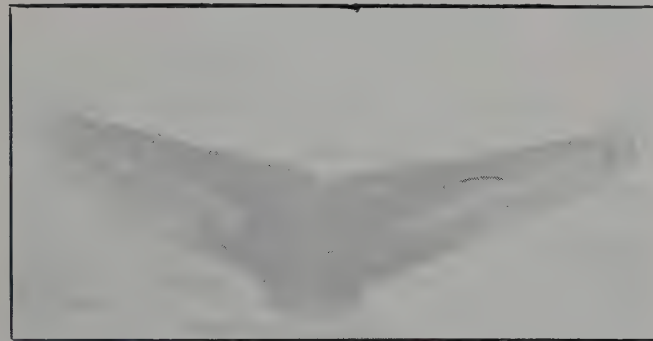
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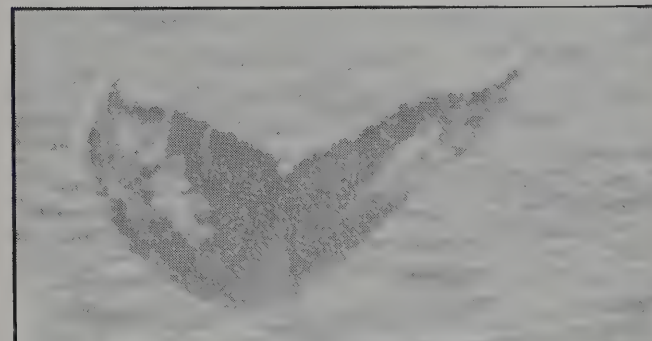
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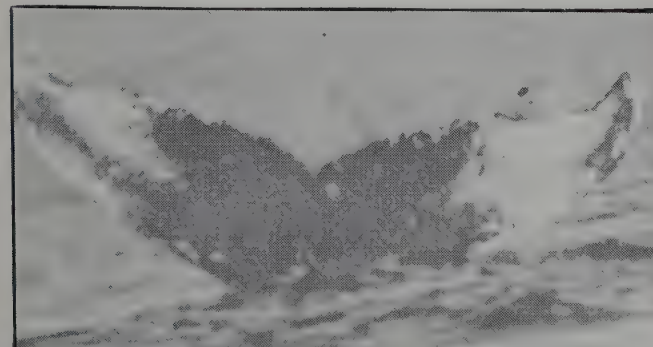
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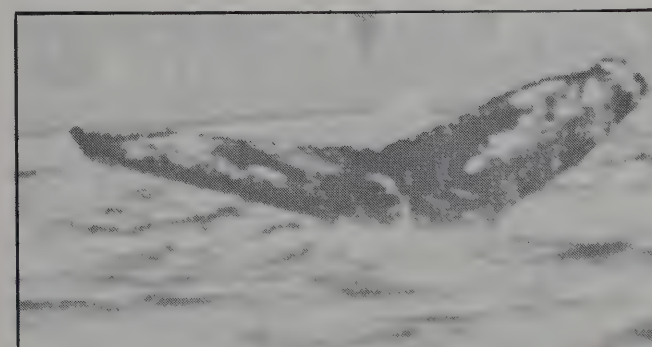
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1938



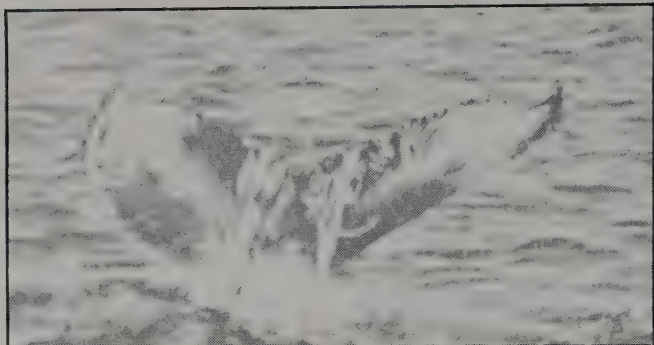
1945



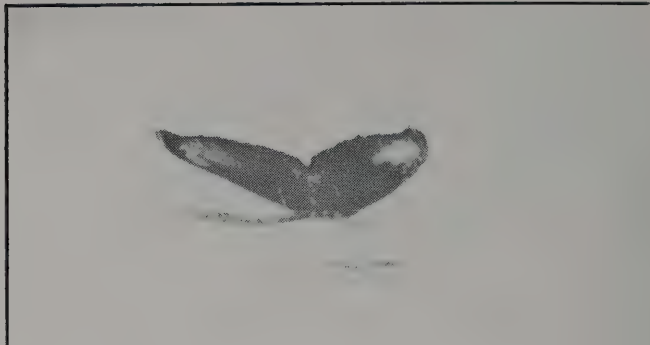
NEWFOUNDLAND 1979



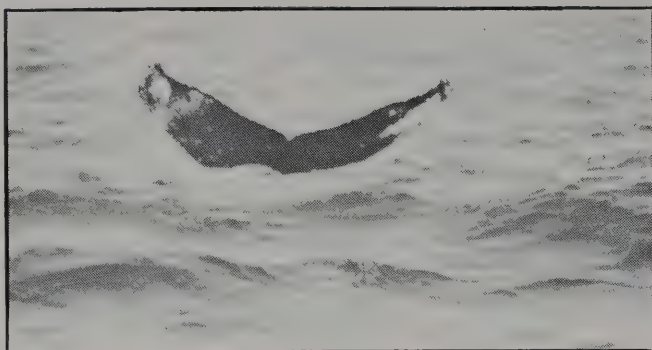
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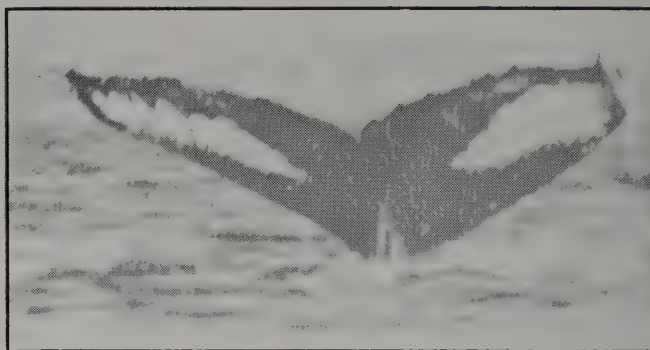
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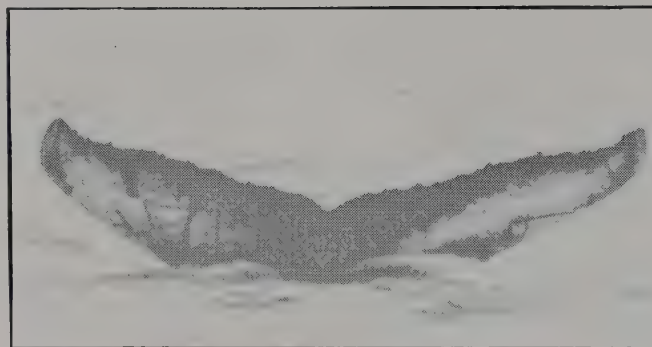
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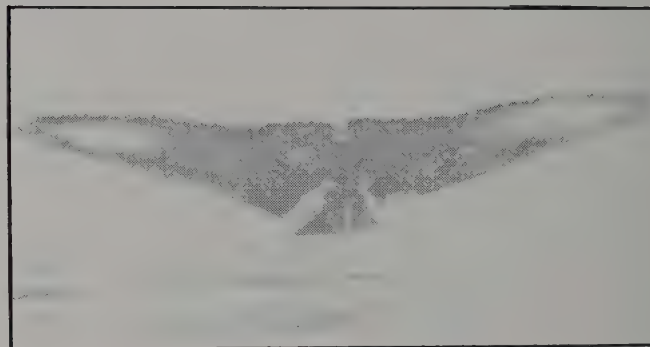
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1610



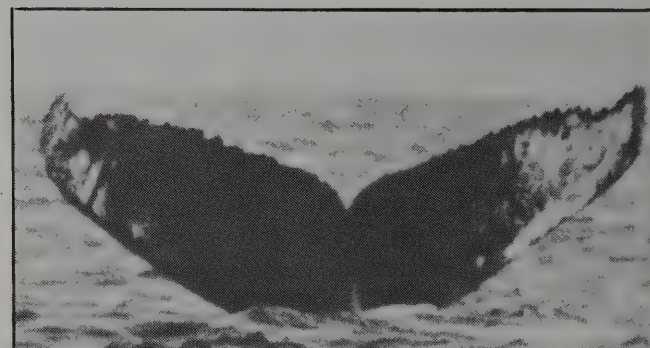
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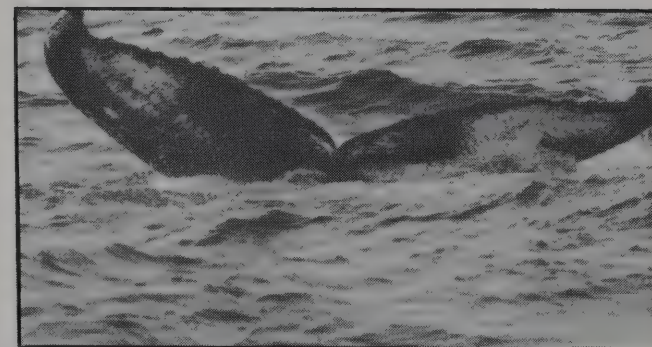
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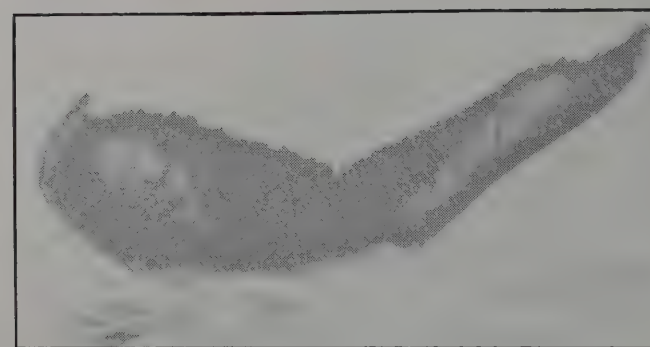
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1671



1688

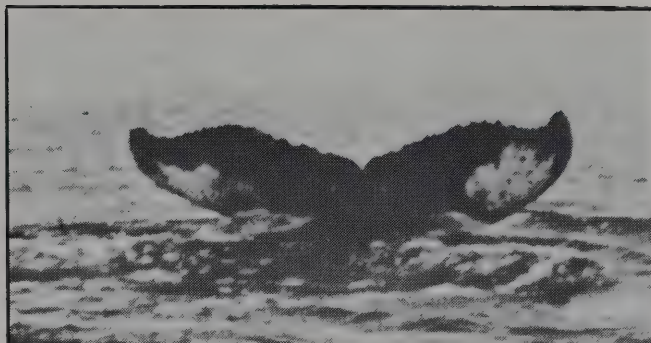




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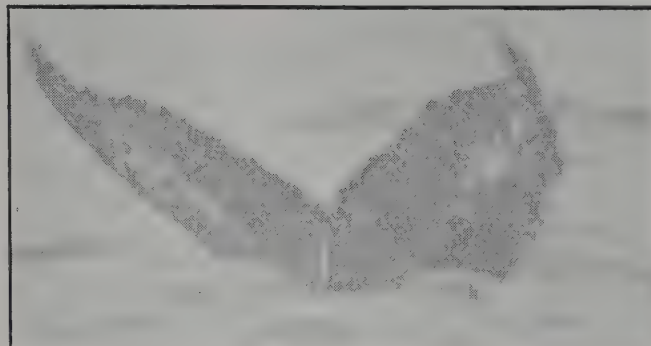
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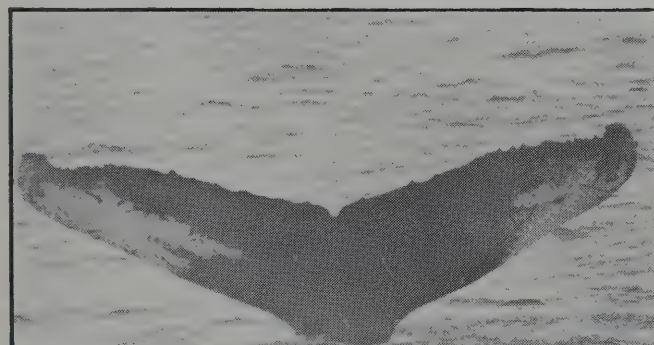
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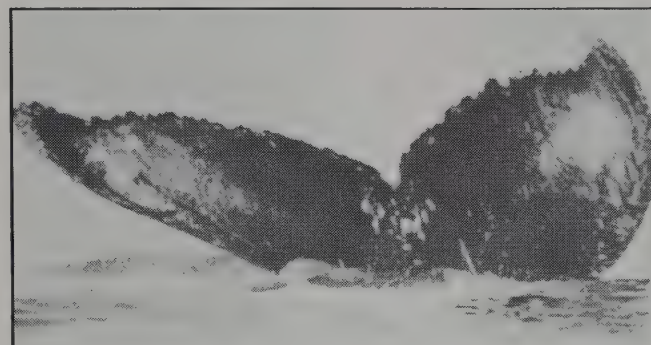
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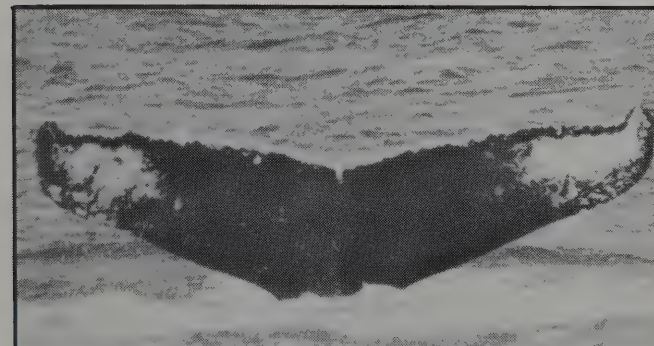
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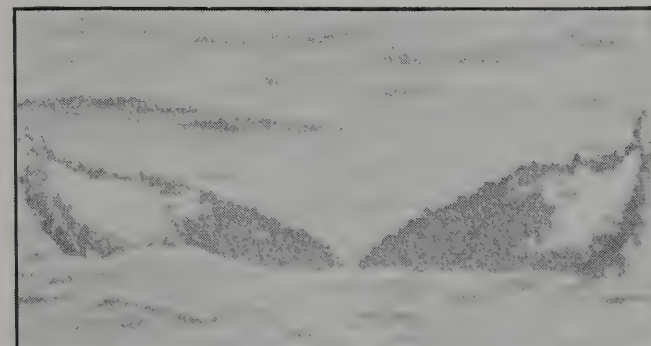
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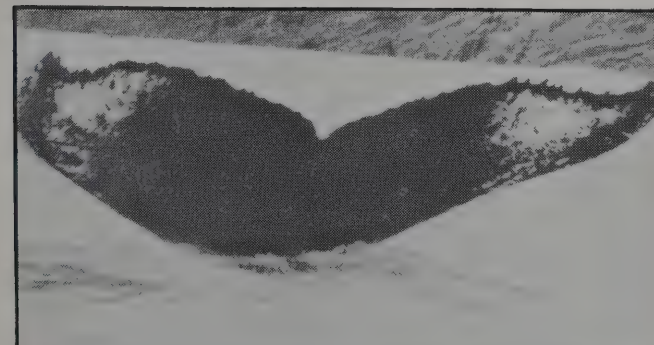
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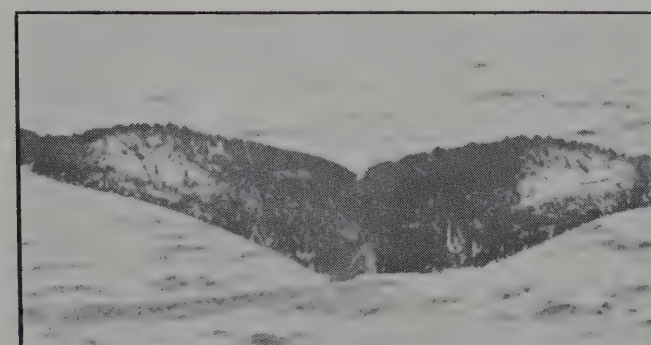
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1873



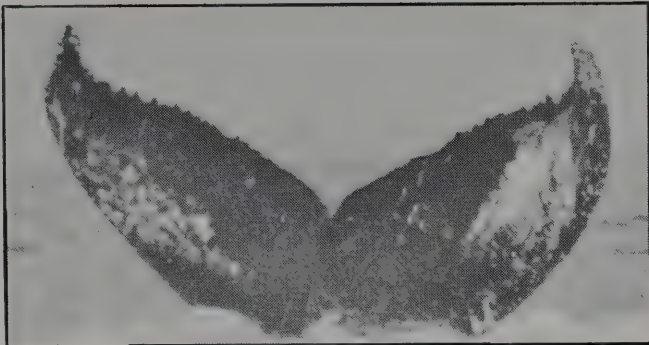
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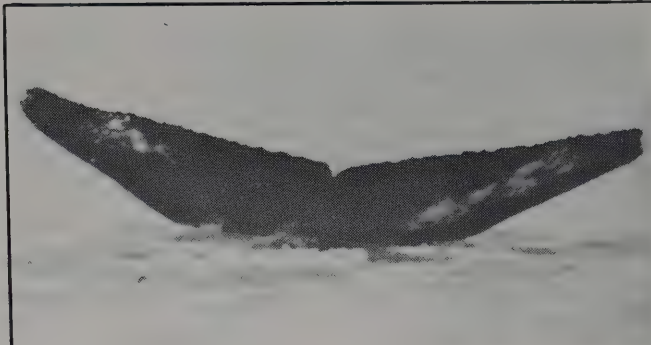
NEWFOUNDLAND 1979



1612



1811



1798



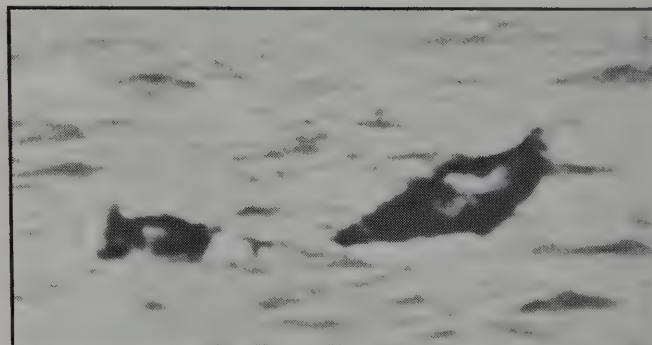
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1966



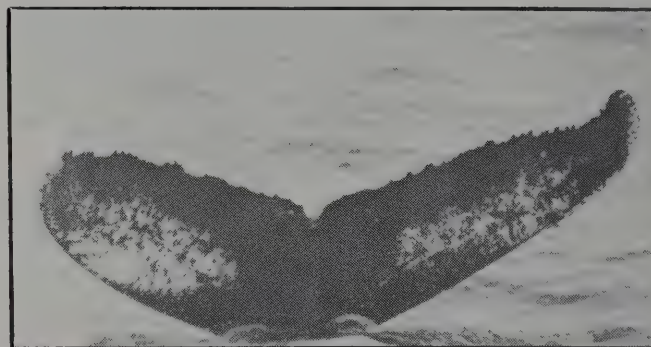
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1722



1666



1817

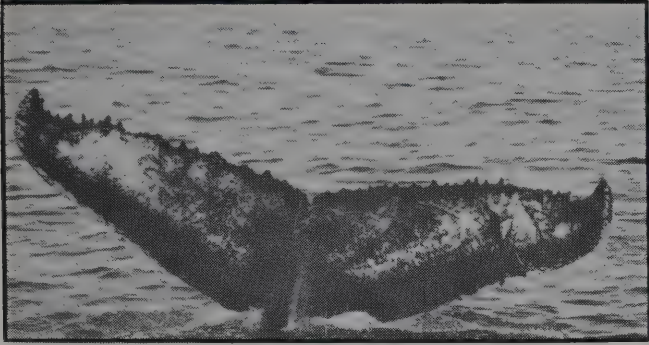


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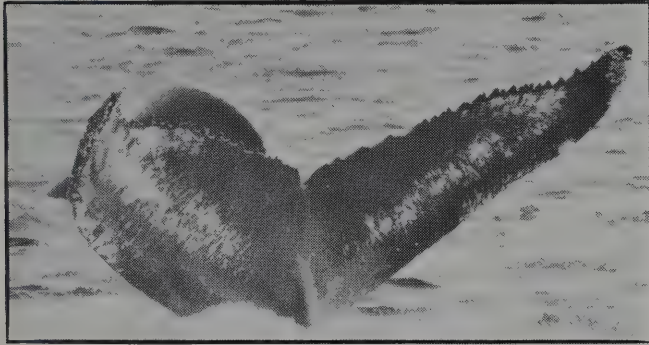




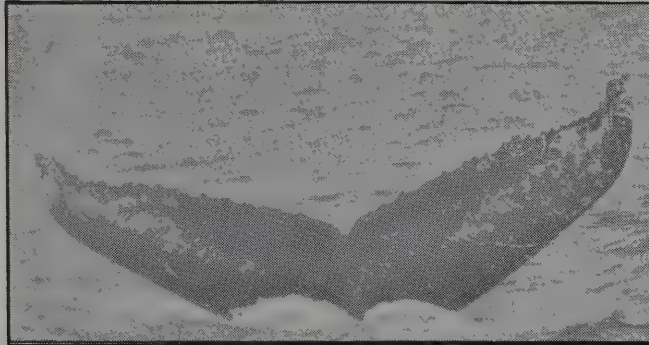
1774



1773



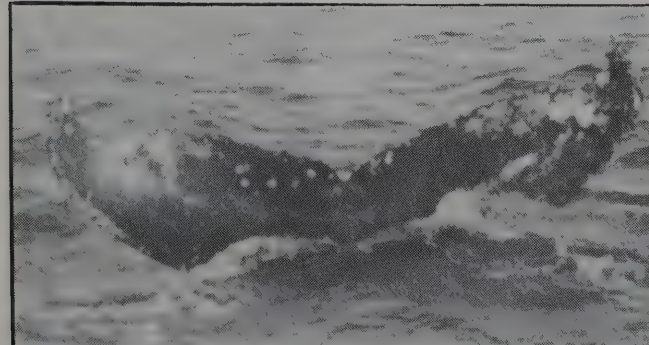
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1674



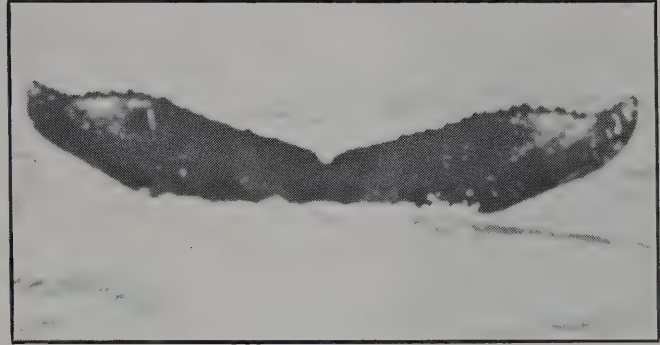
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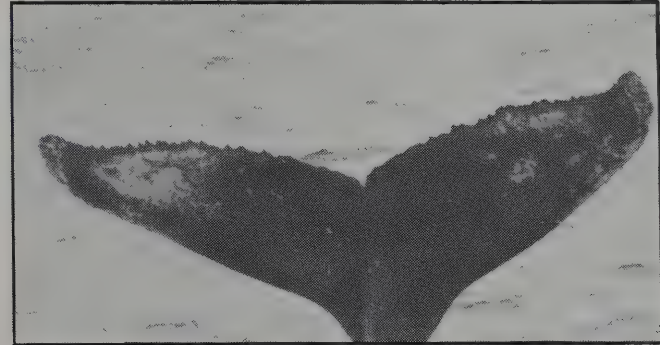
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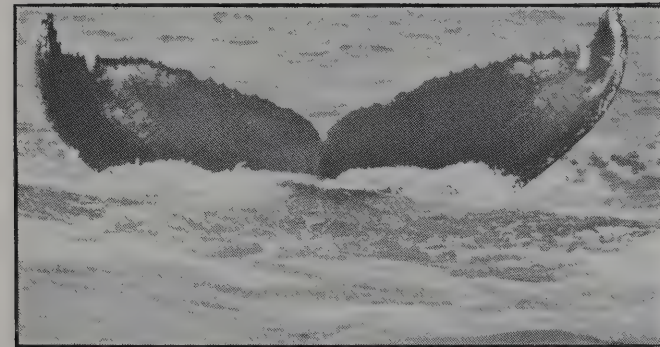
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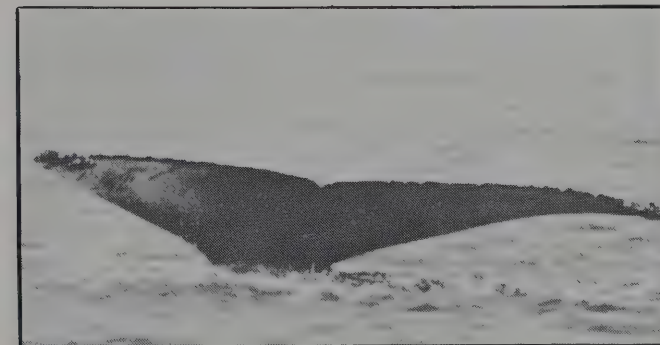
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1806



1976



NEWFOUNDLAND 1979

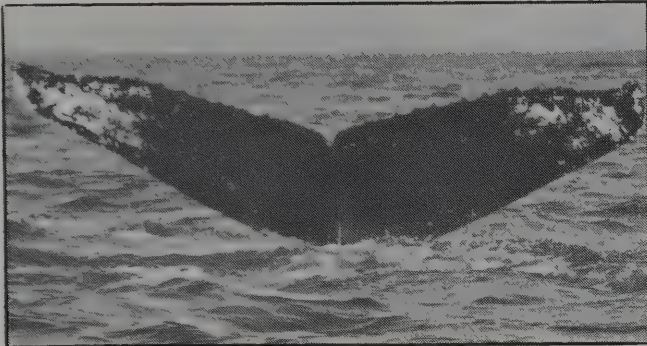


NEW  
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LAND  
1979

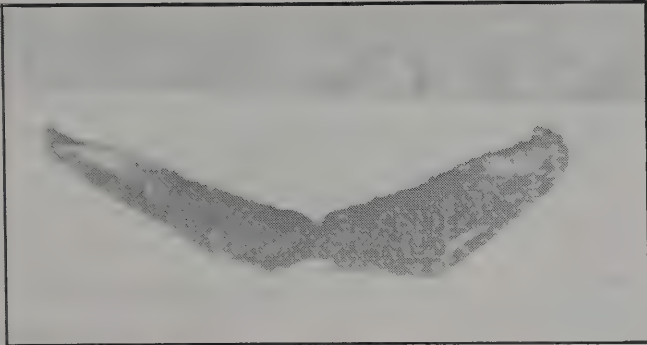
1941



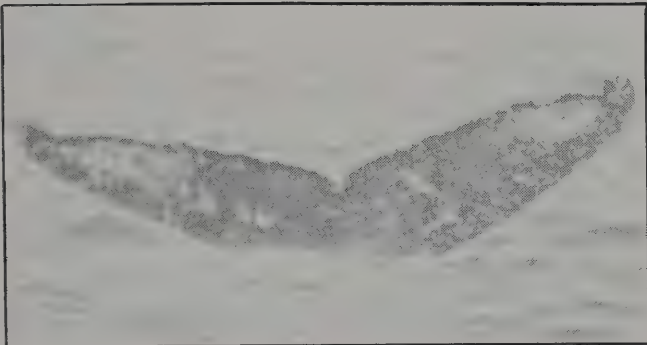
1946



1874



1788



1511



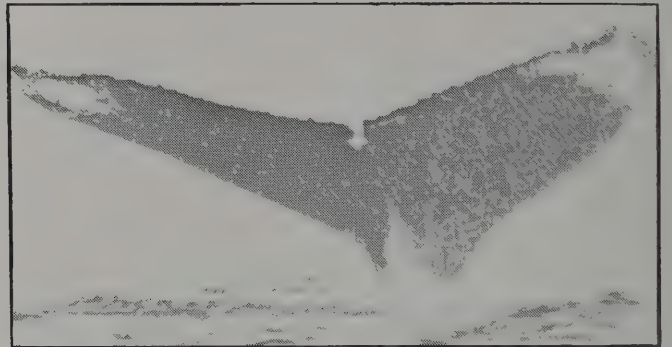
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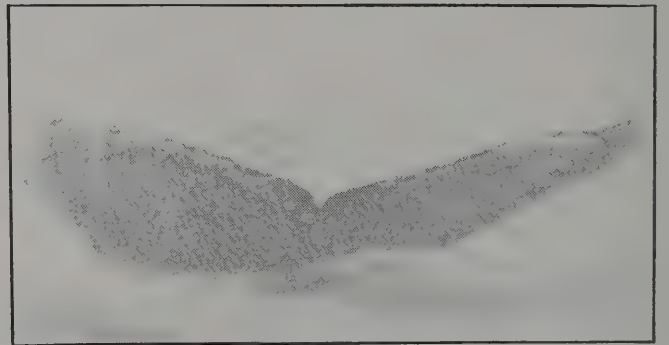
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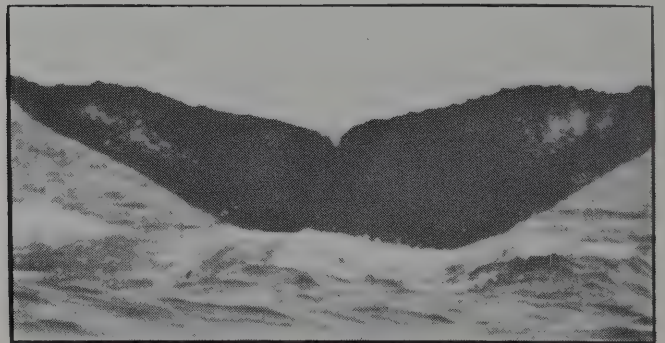
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1829



1809





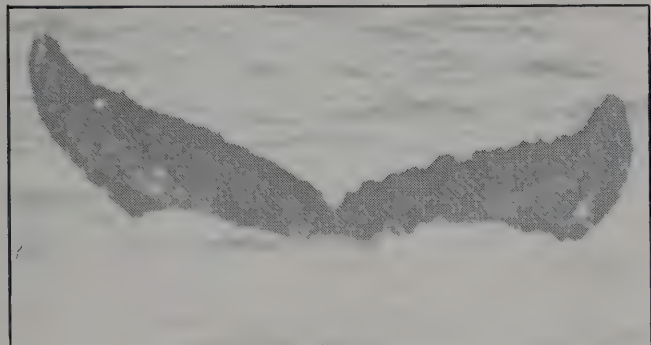
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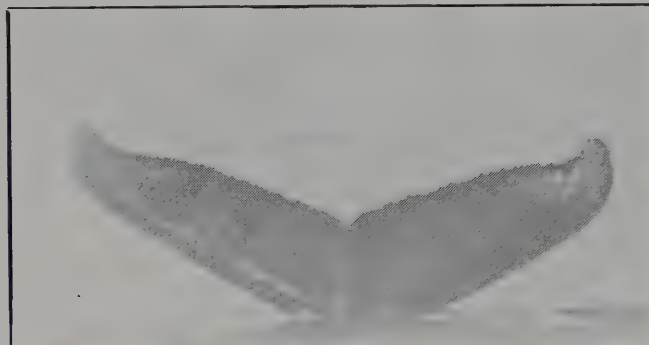
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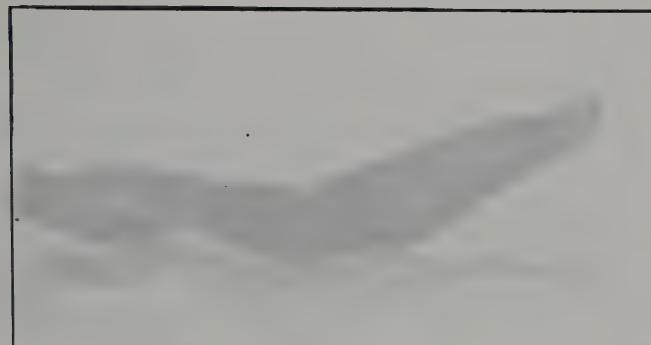
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1819



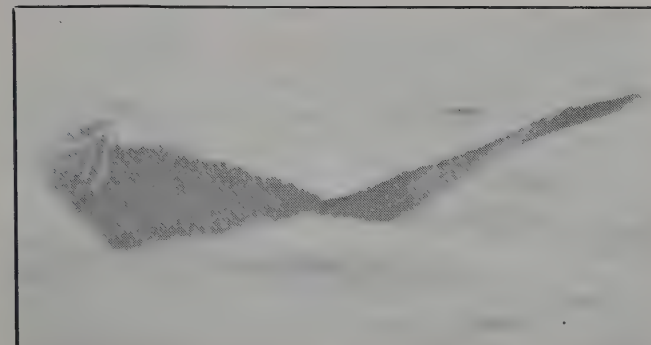
1970



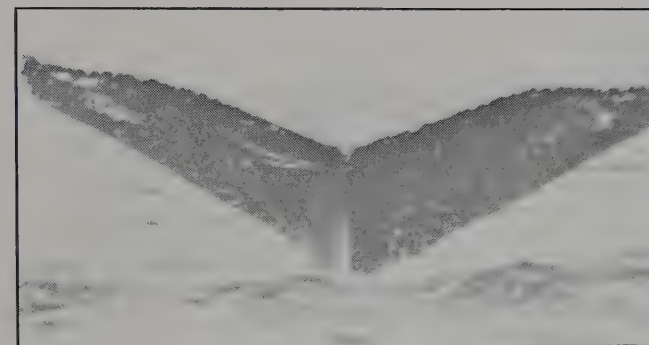
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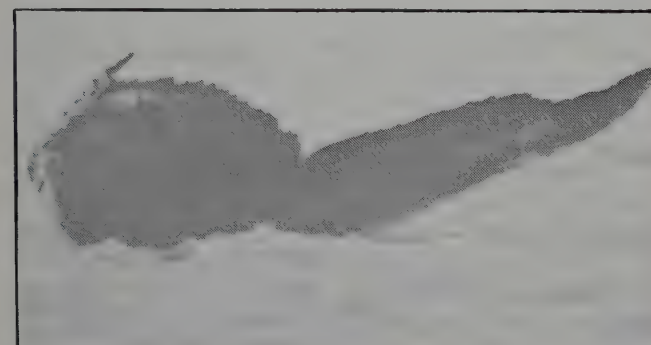
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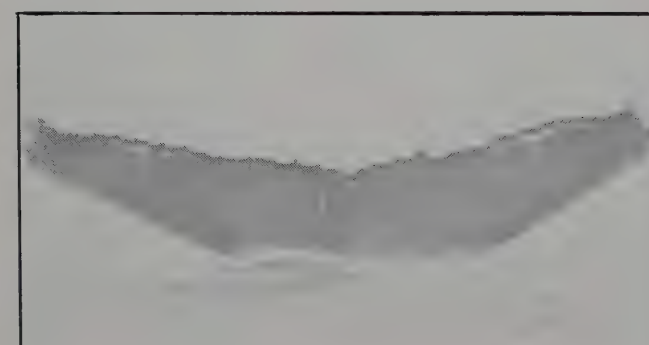
1676



1969



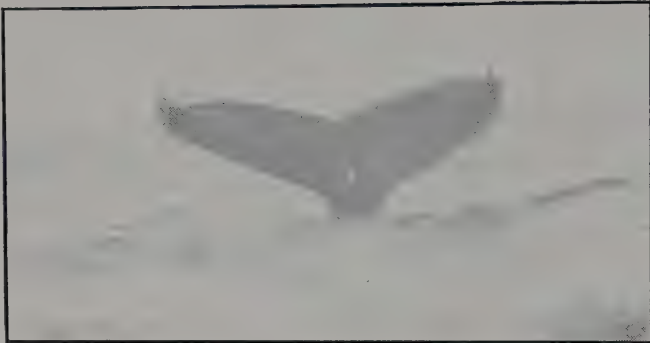
1573



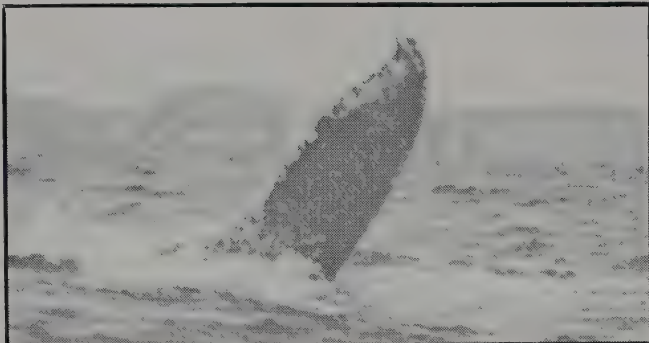
NEWFOUNDLAND 1979



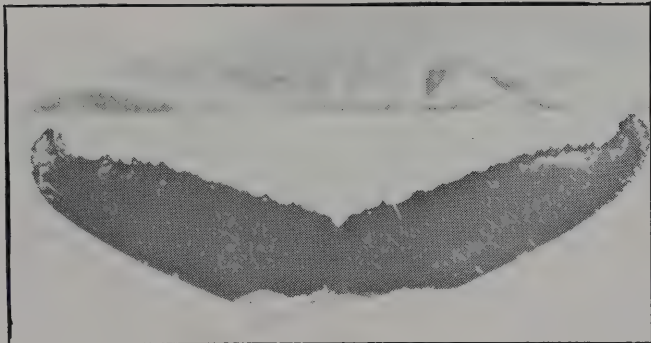
1828A



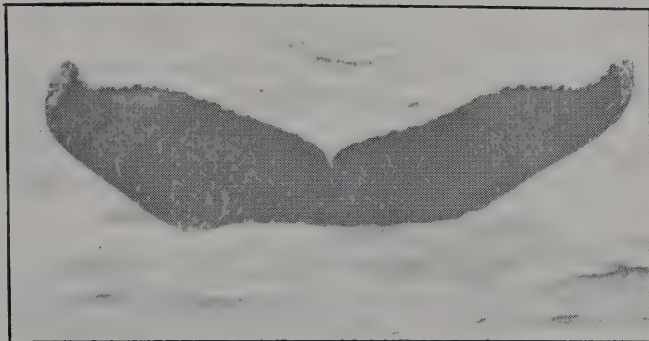
1828B



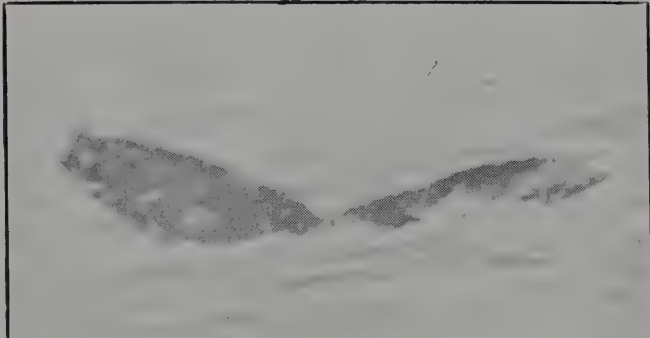
1675



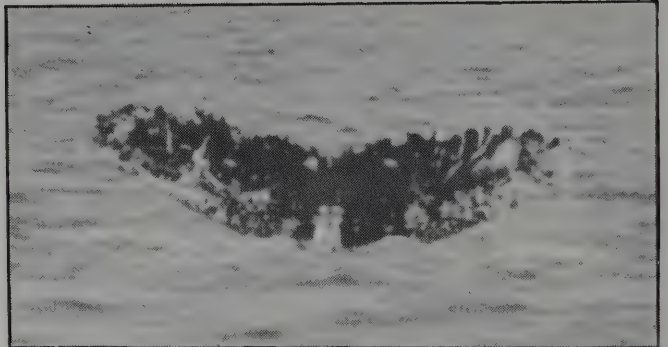
1723



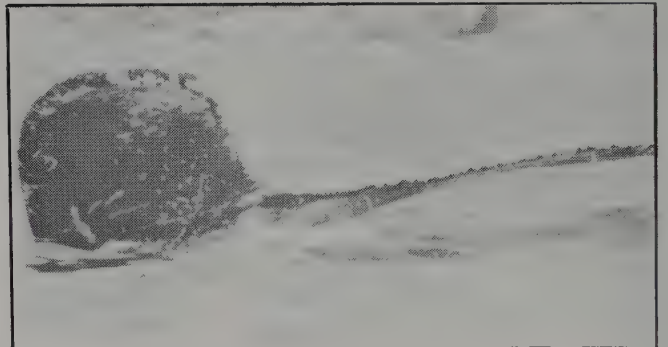
1562



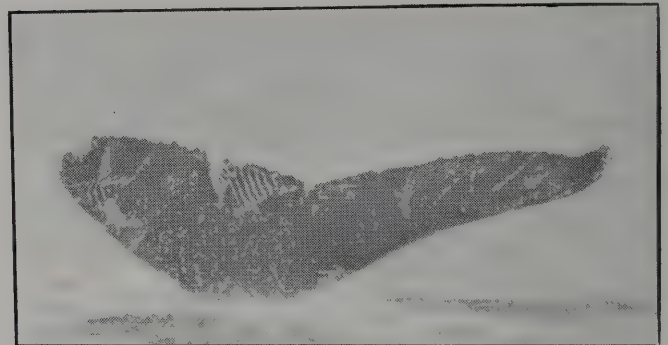
1508



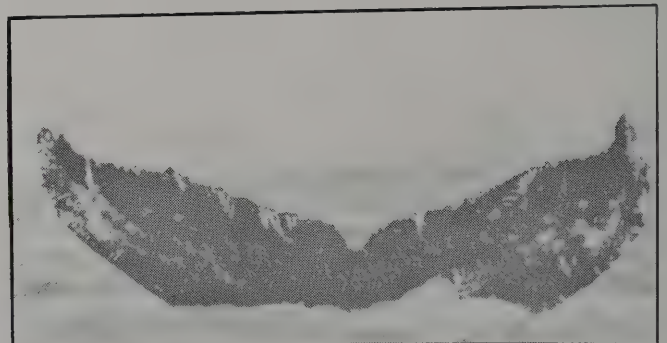
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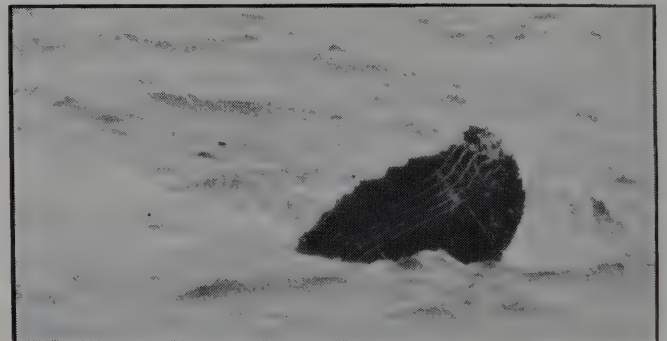
1831



1876

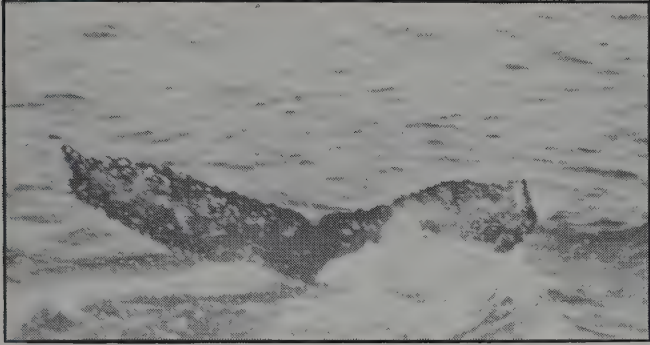


1544

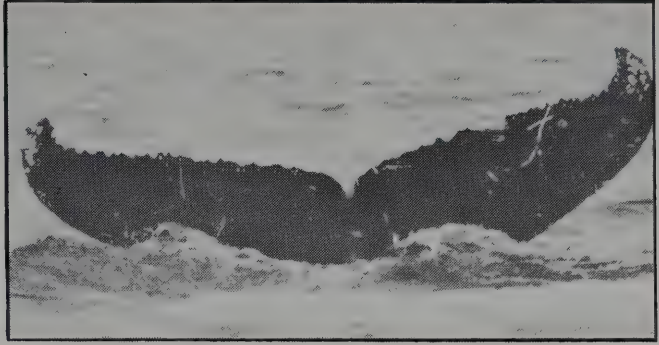




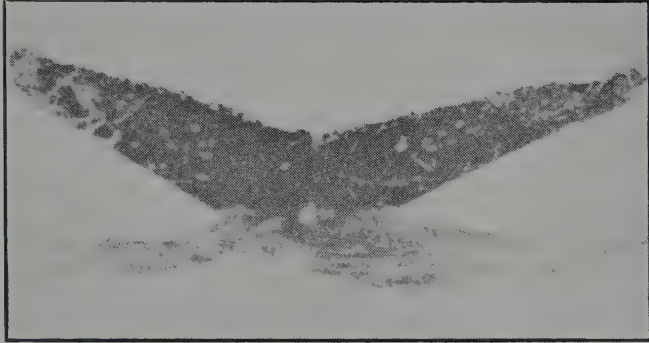
1977



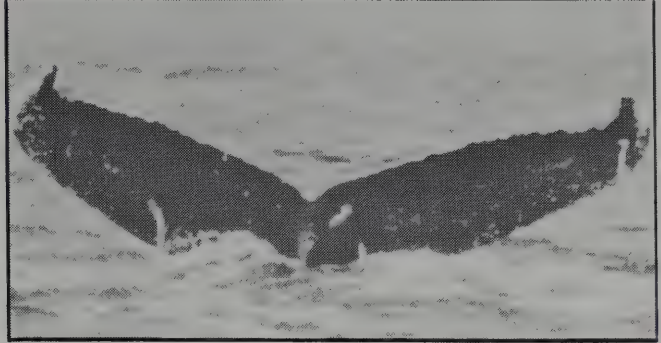
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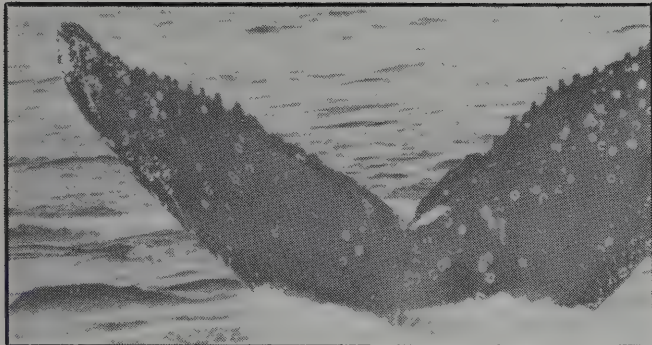
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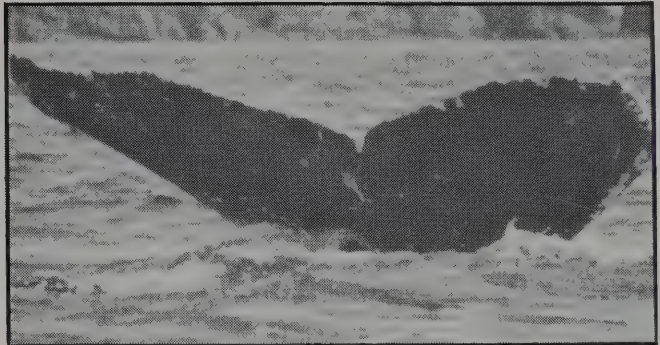
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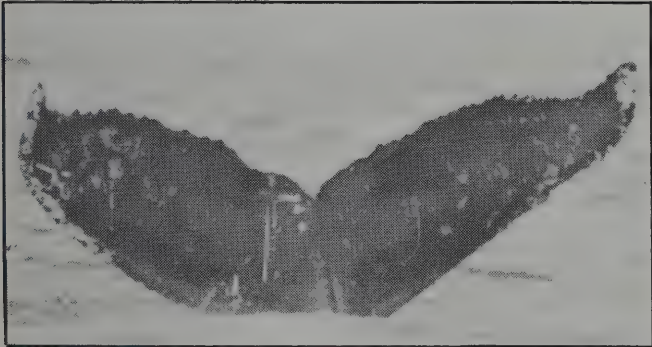
1822



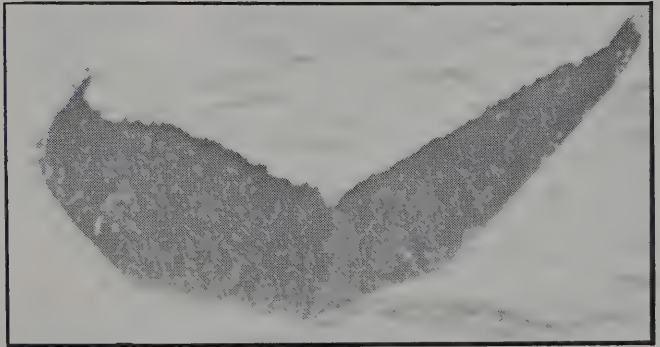
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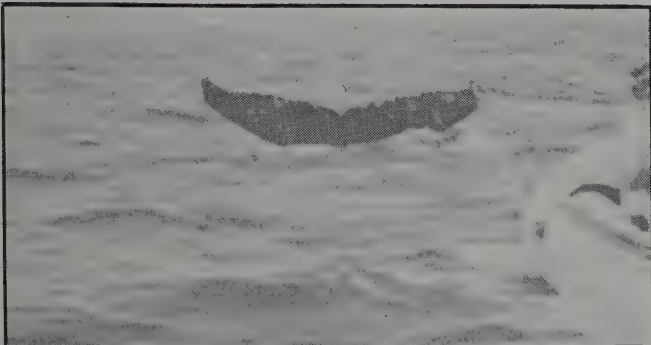
1673



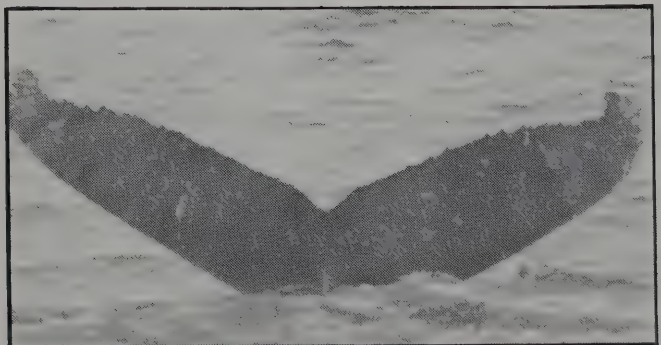
1820



1807



1643

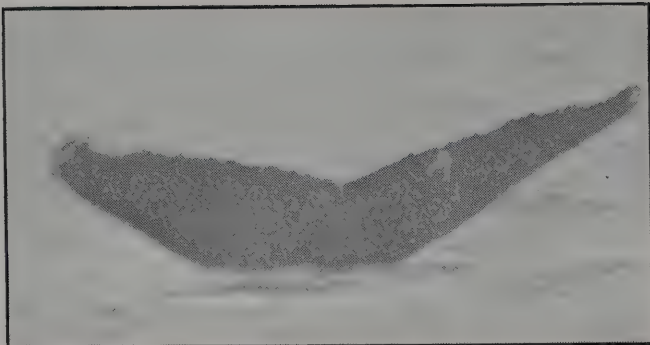


NEWFOUNDLAND 1979

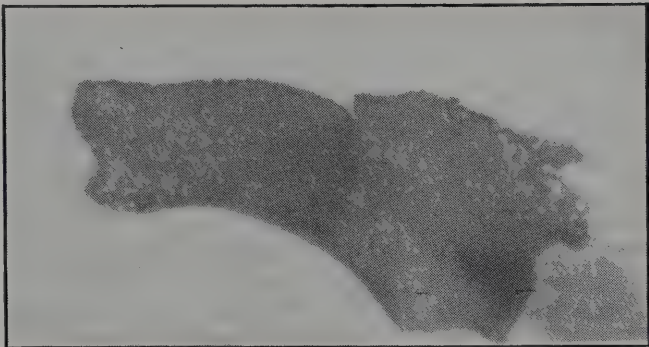


NEW  
FOUND  
LAND  
1979

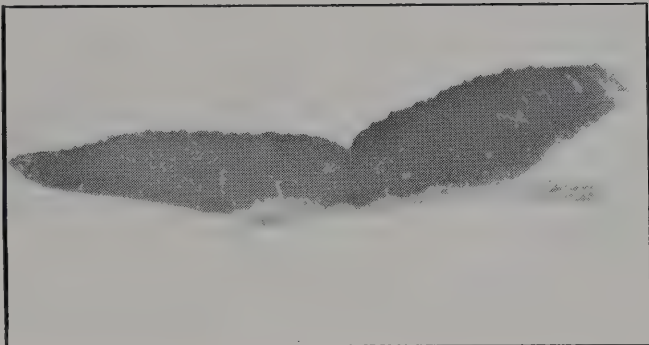
1974



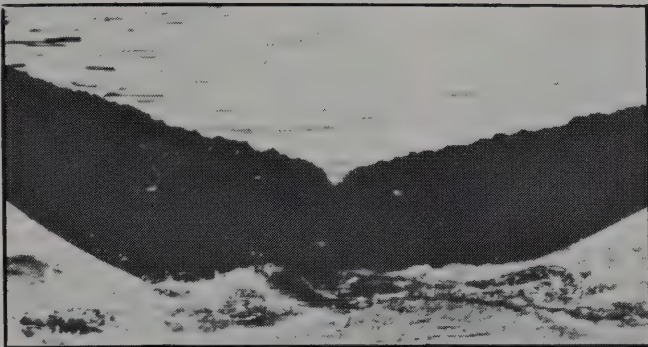
1577



1823



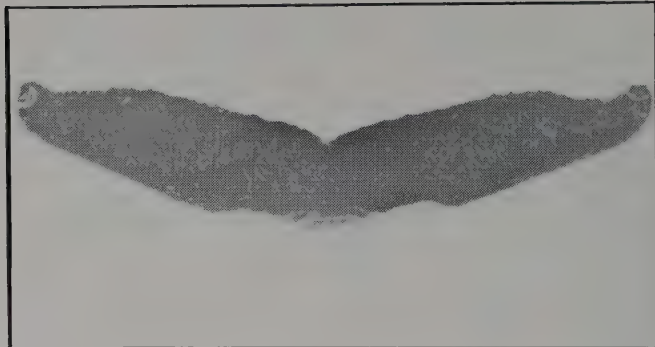
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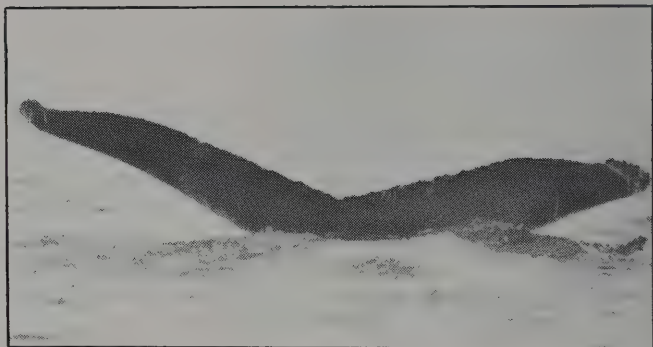
1815



1877



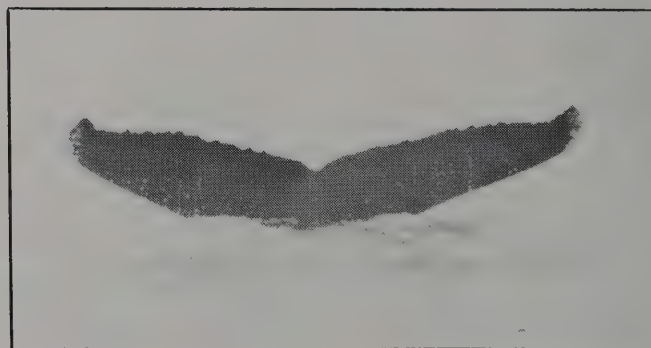
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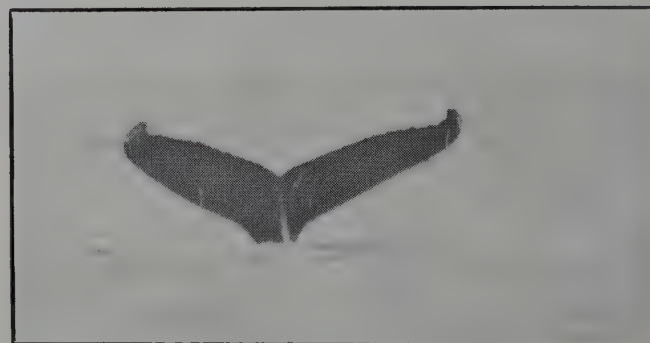
1878



1833

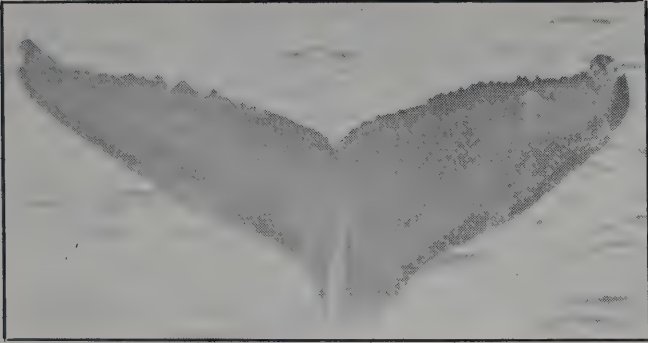


1832

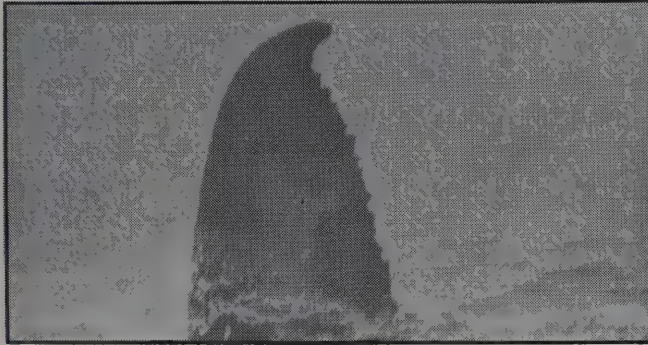




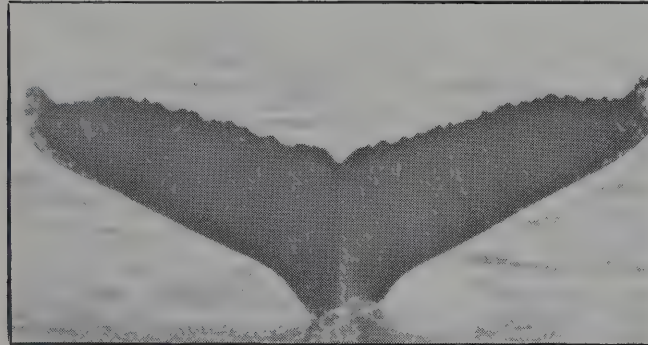
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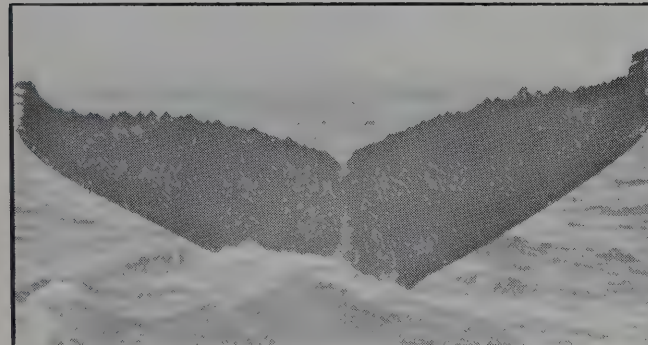
1581



1597



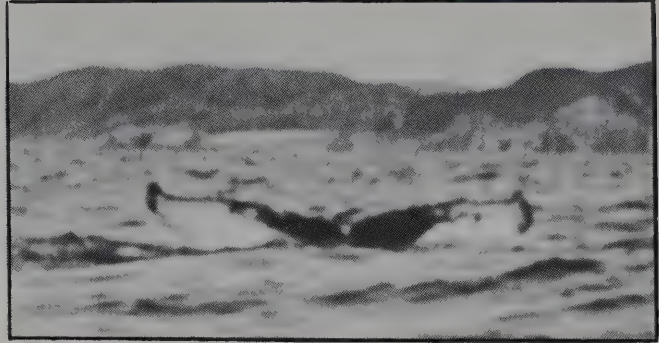
1947



1979



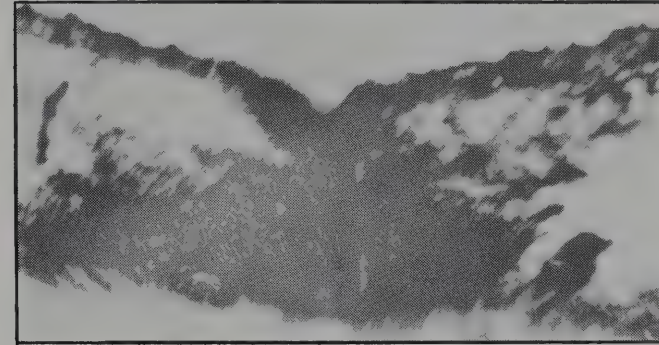
1980



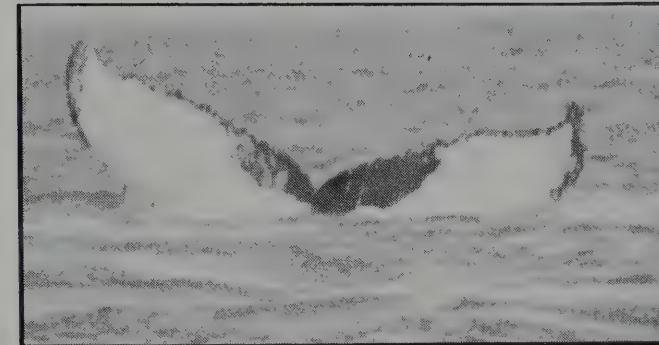
1981A



1981B



1982



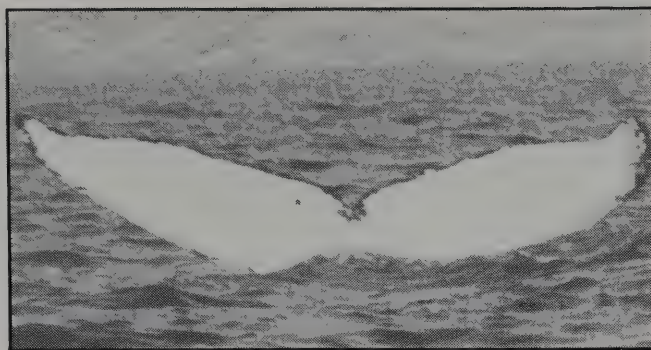
NEWFOUNDLAND 1979



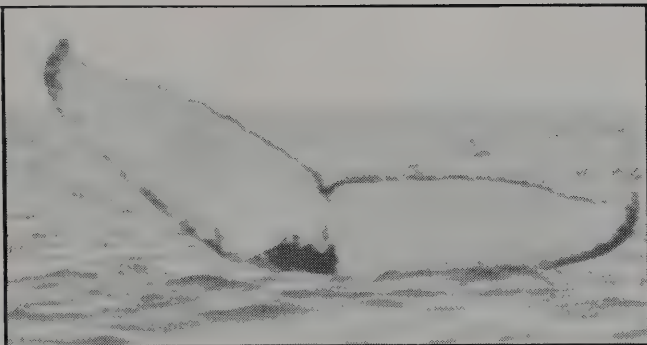
1135



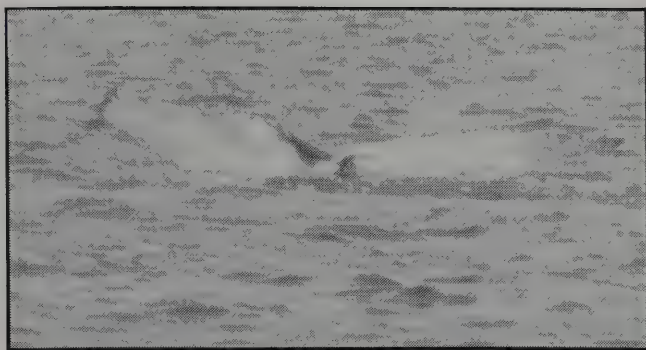
1160



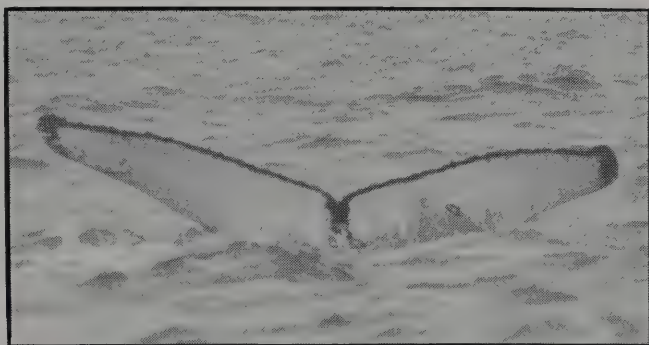
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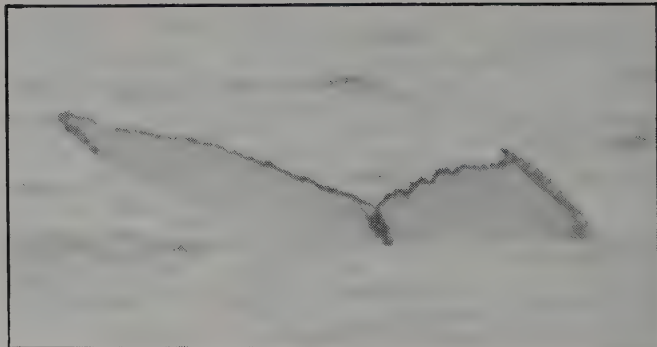
1245



1374



1207



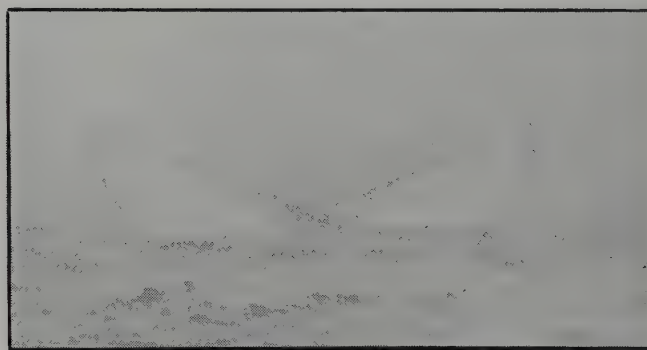
1178A



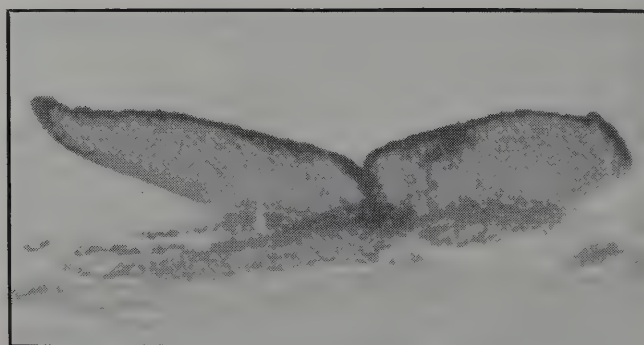
1178B



1090

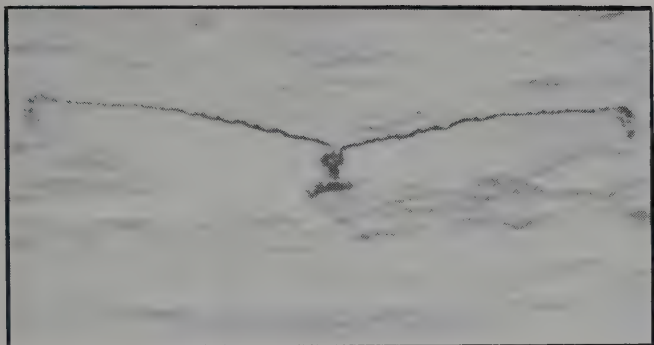


1015

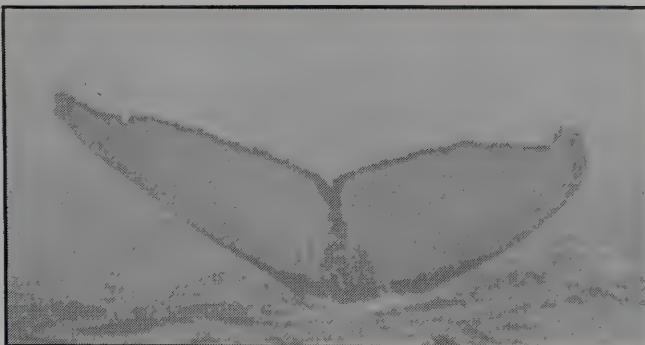




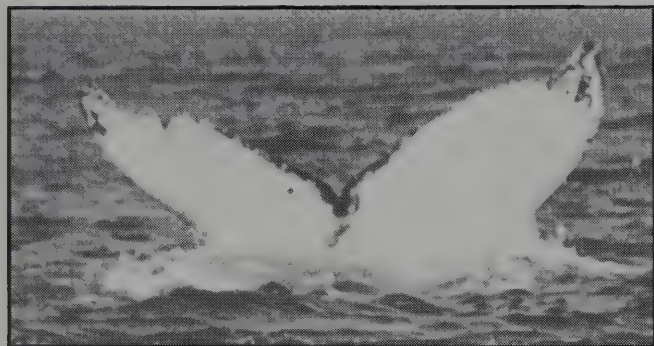
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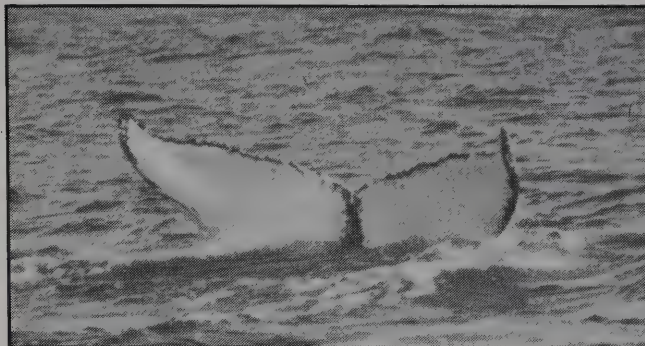
1058



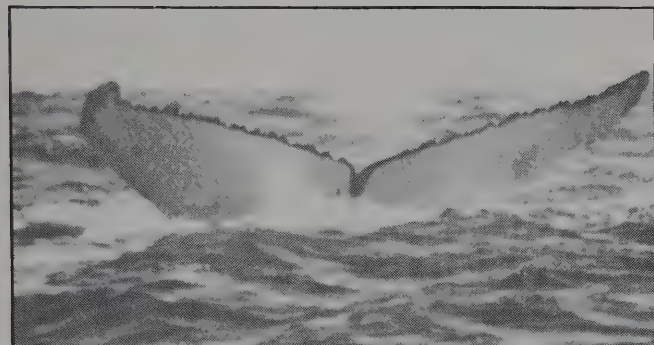
1303



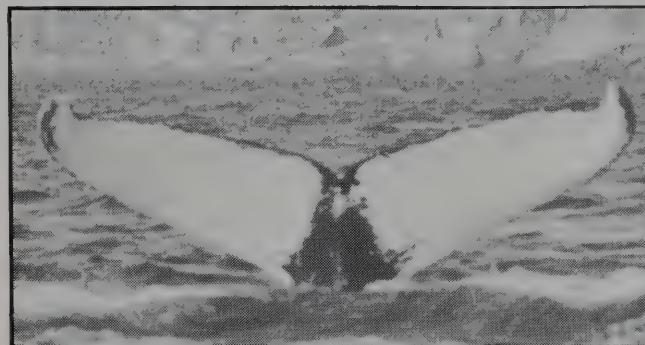
1192



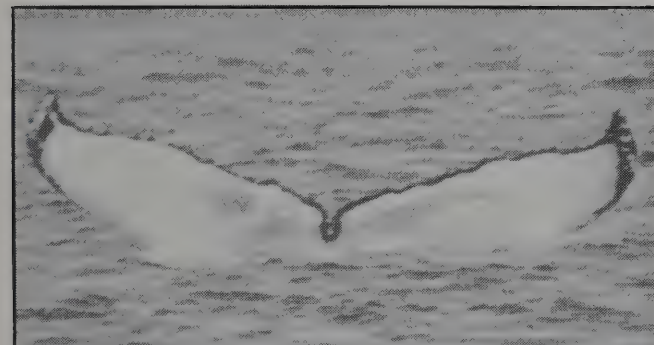
1373



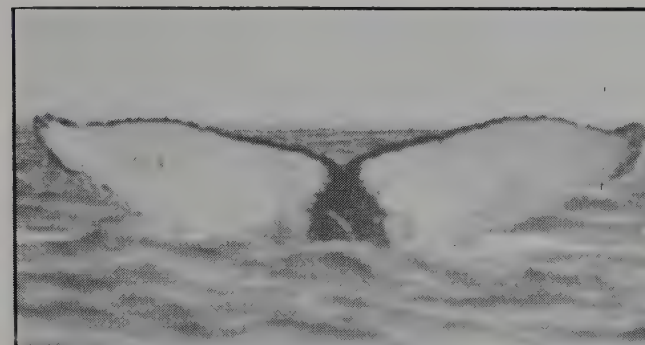
1304



1020



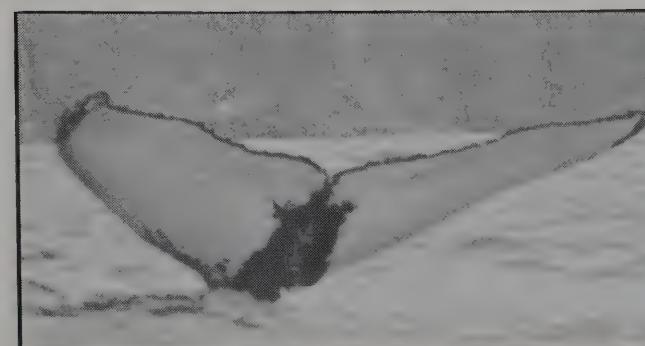
1355



1357



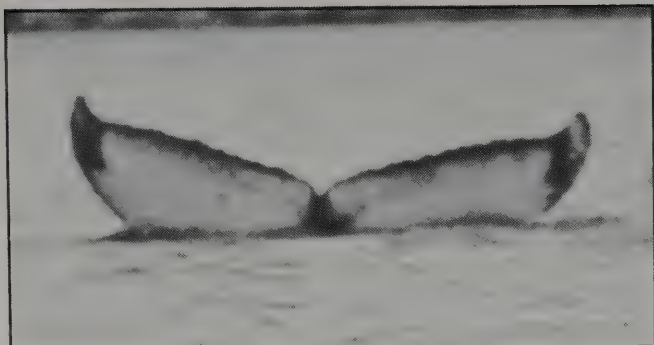
1360



NEW  
FOUND  
LAND  
1978



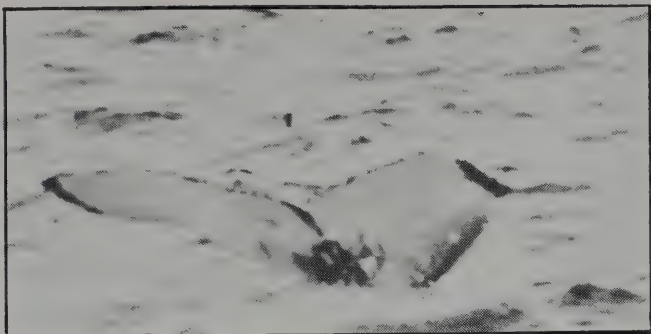
1263



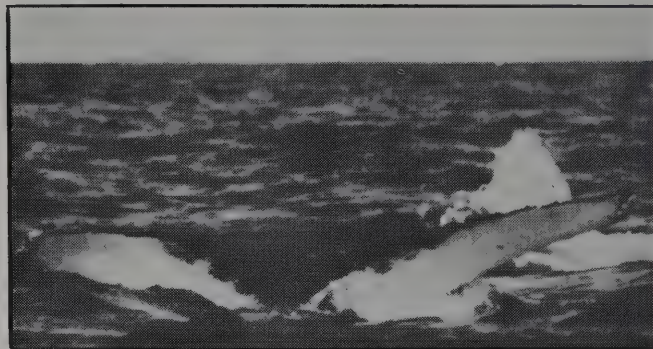
1018



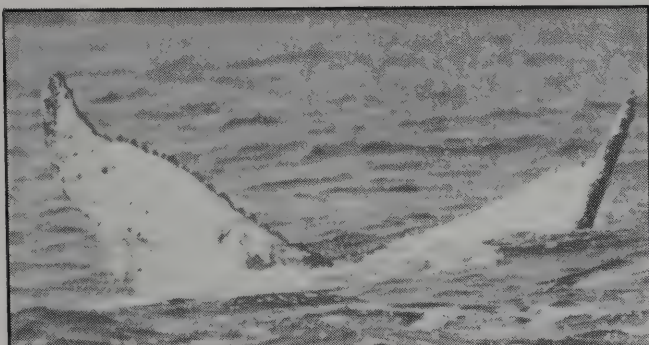
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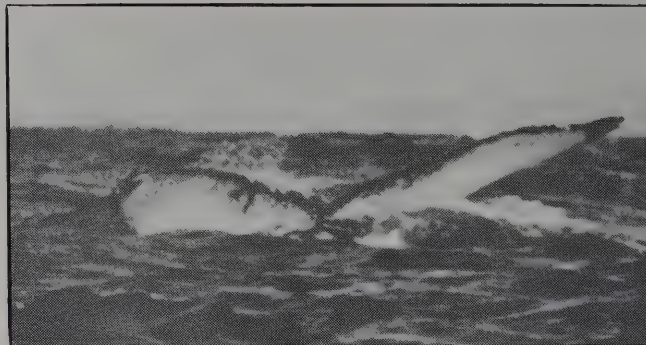
1369



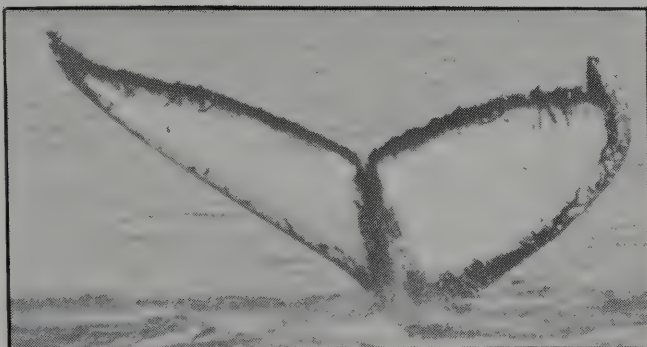
1132



1372



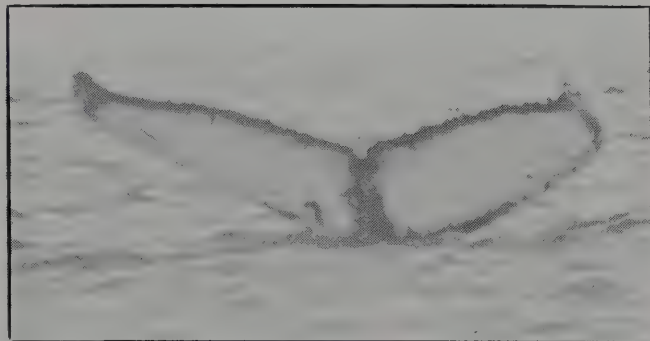
1038



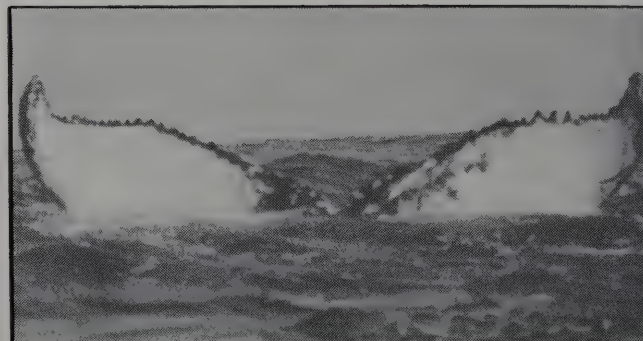
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1194



1310

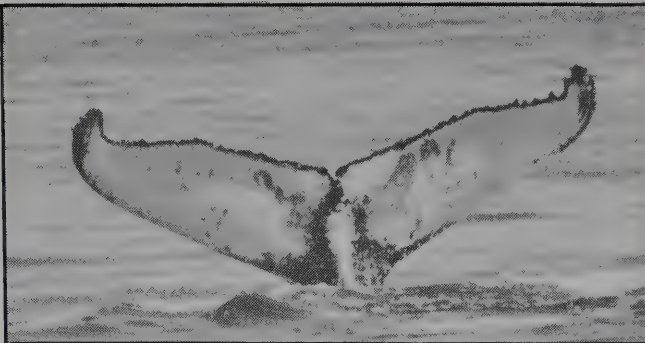




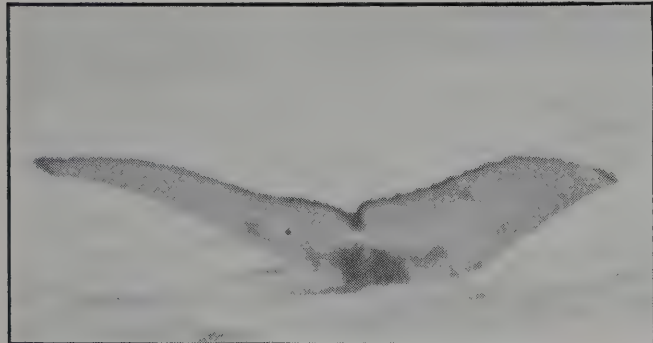
1179



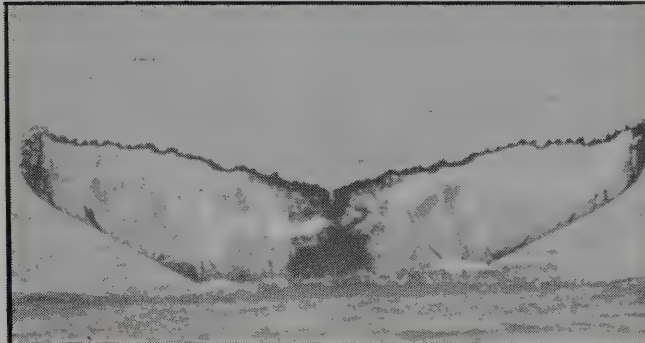
1165



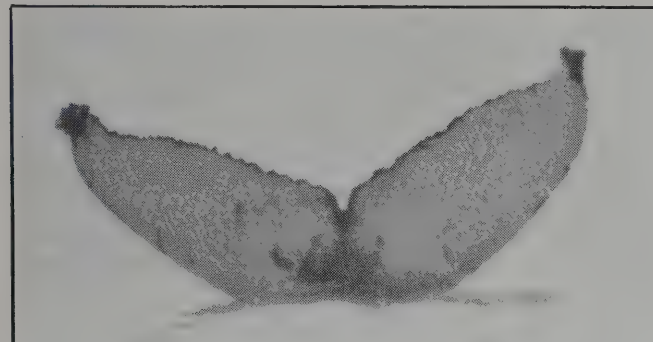
1220



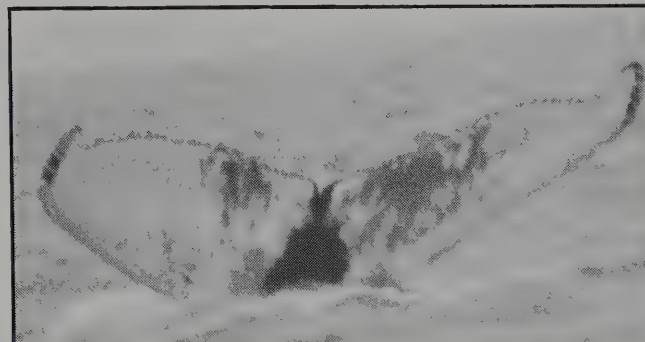
1021



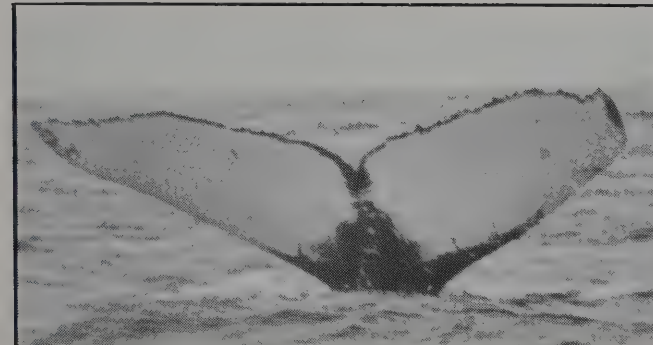
1130



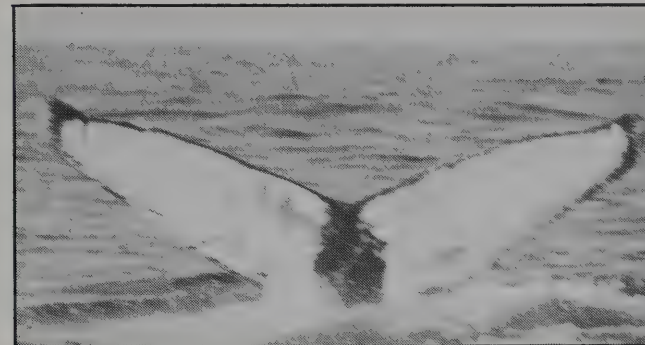
1181



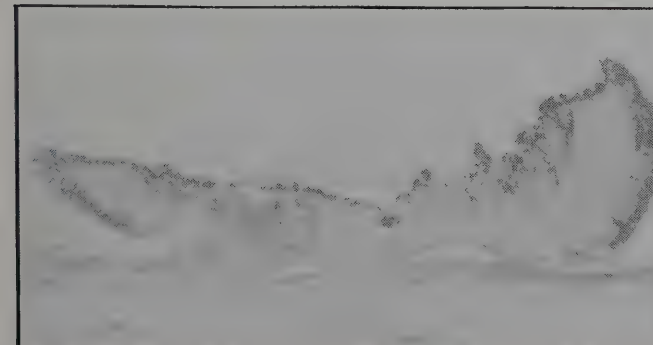
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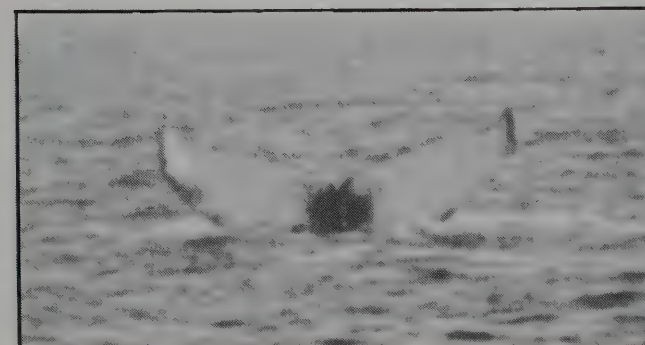
1177



1075



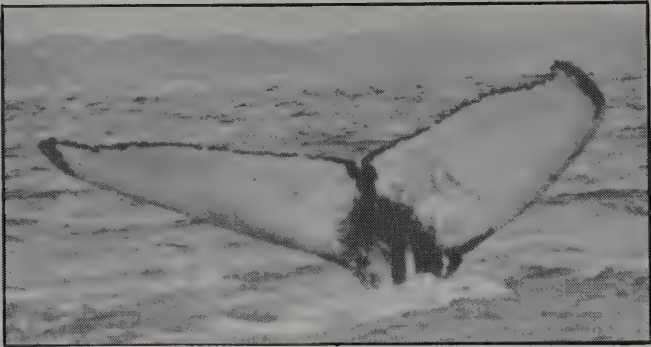
1161



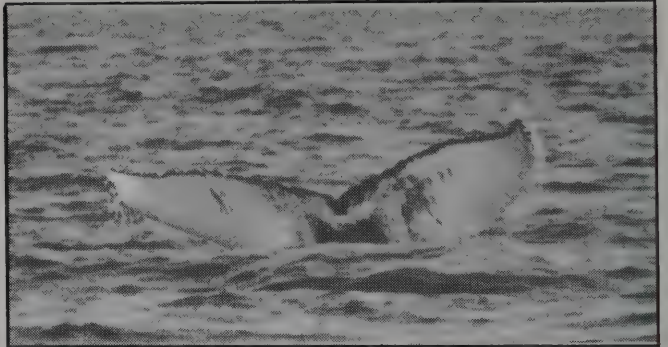
NEWFOUNDLAND 1978



1391



1127



1081



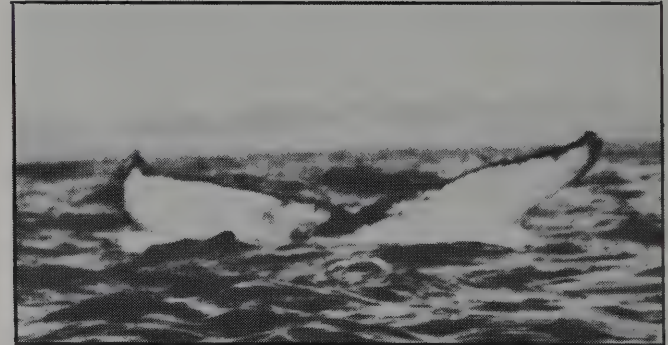
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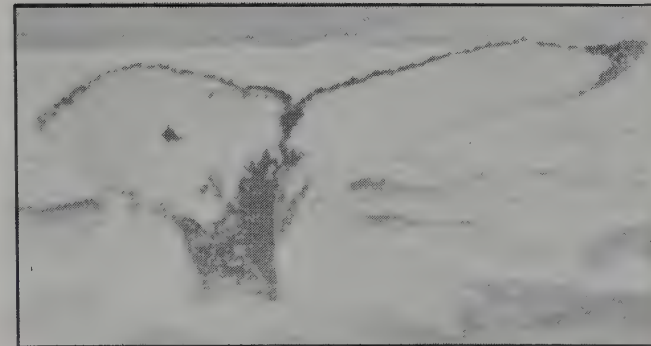
1002



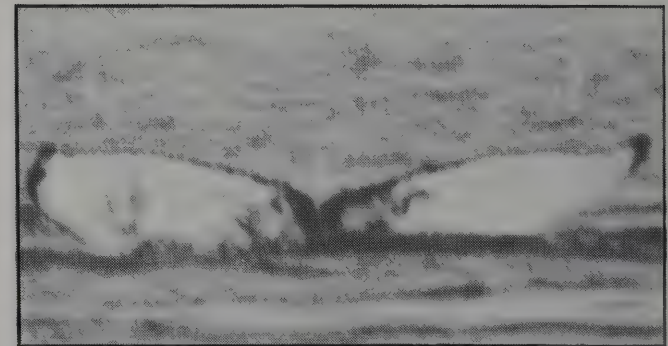
1379



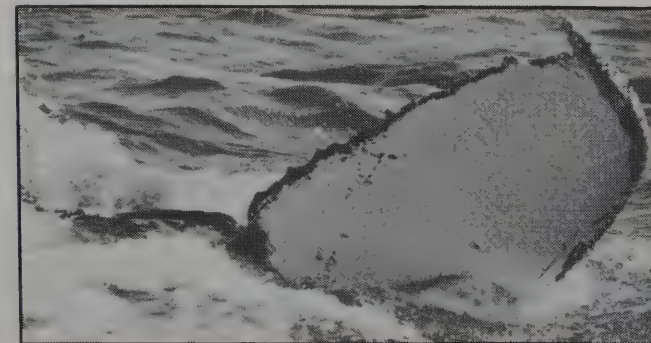
1221A



1057



1221B

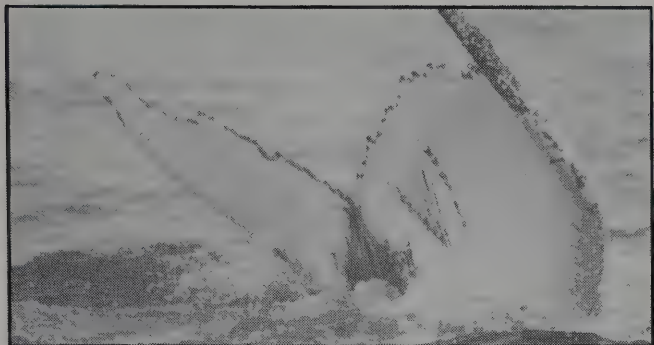


1378

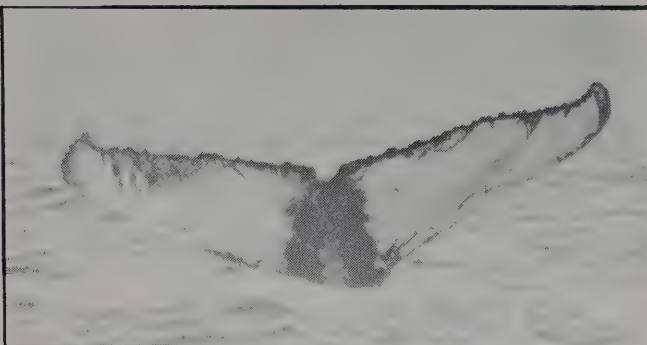




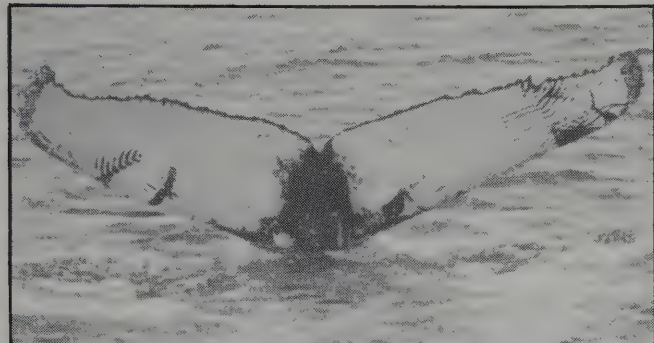
1077



1138



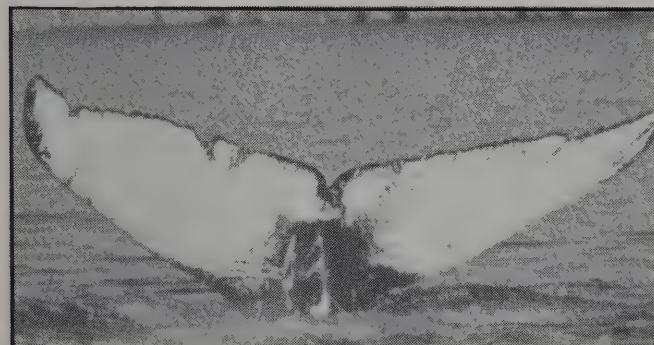
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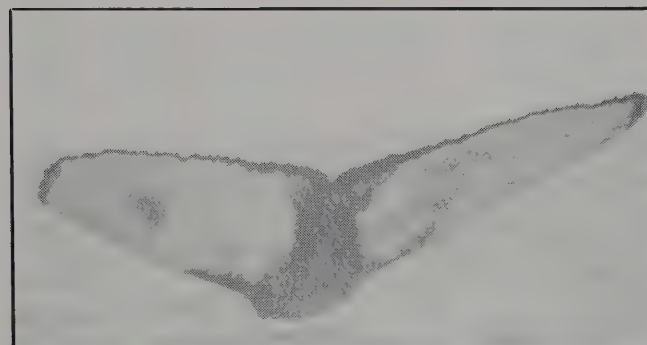
1166



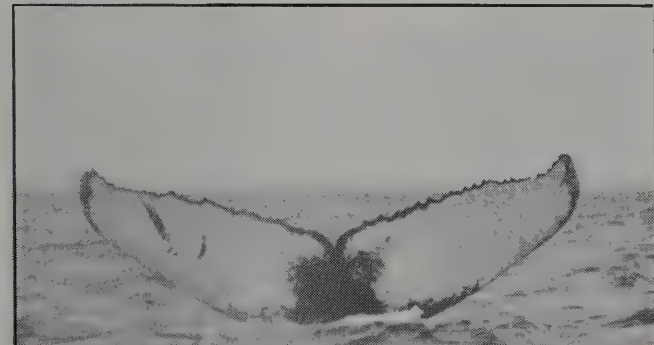
1052



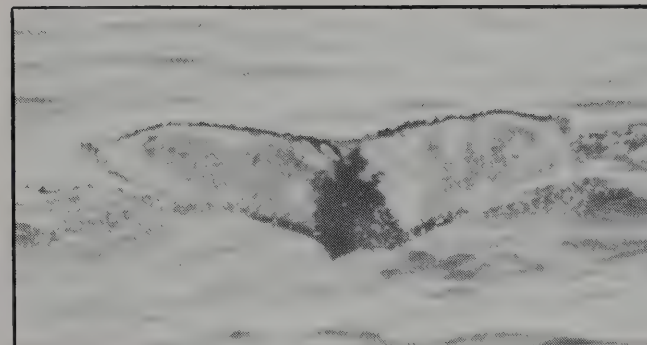
1215



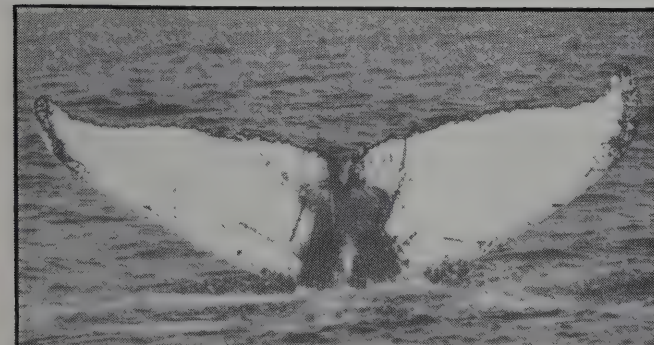
1338



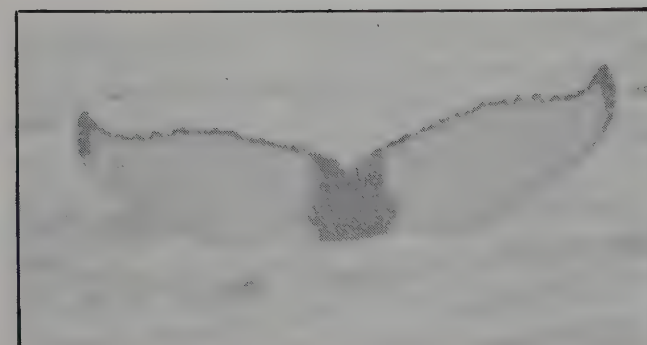
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1047



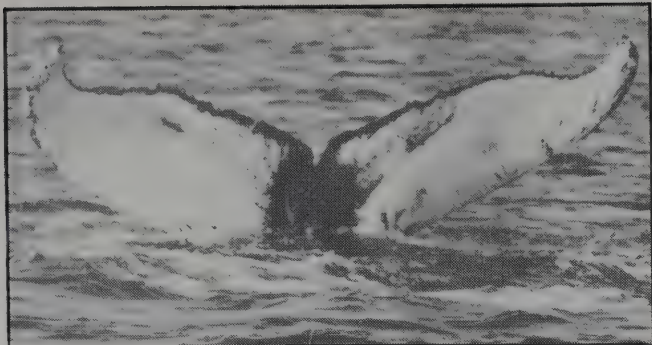
1062



NEW  
FOUND  
LAND  
1978



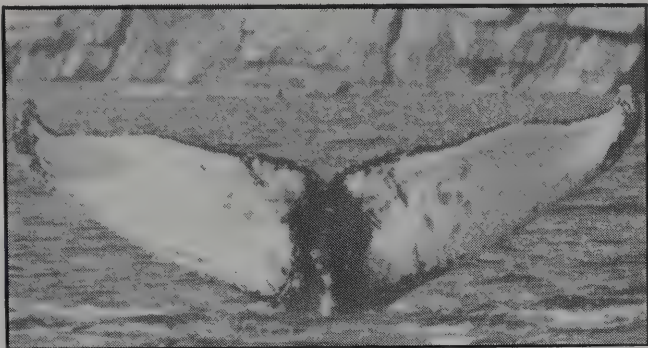
1009



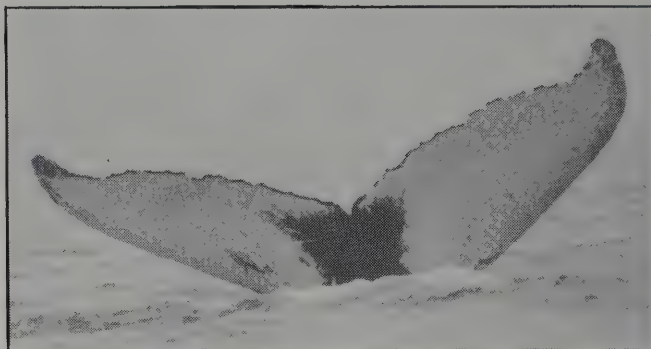
1034



1046



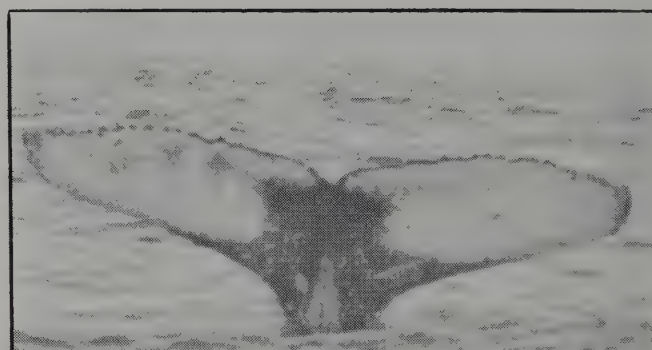
1350



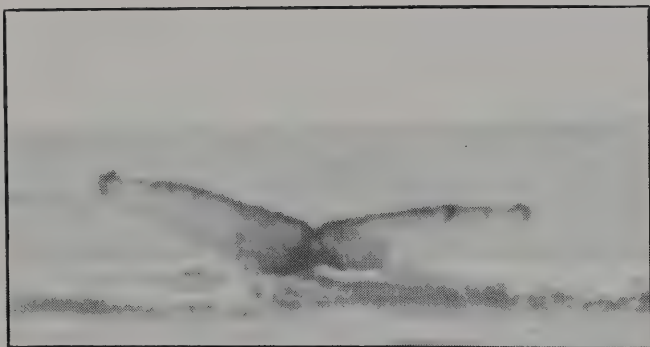
1243



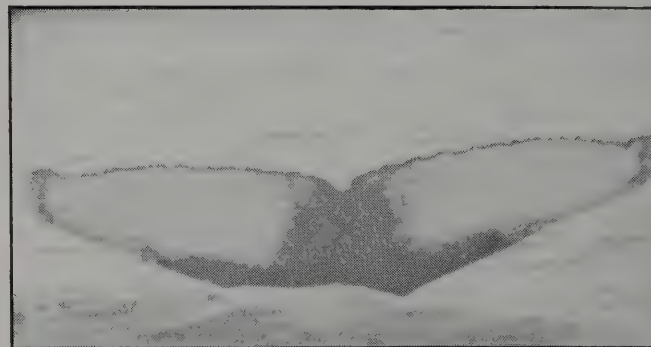
1205



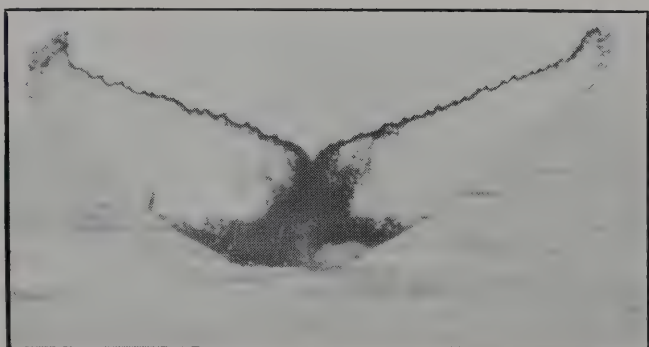
1147



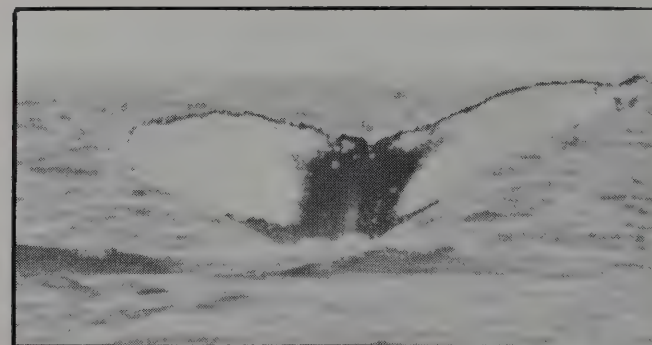
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1106

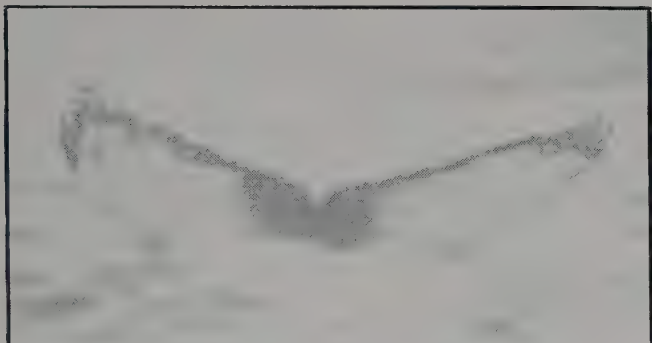


1136

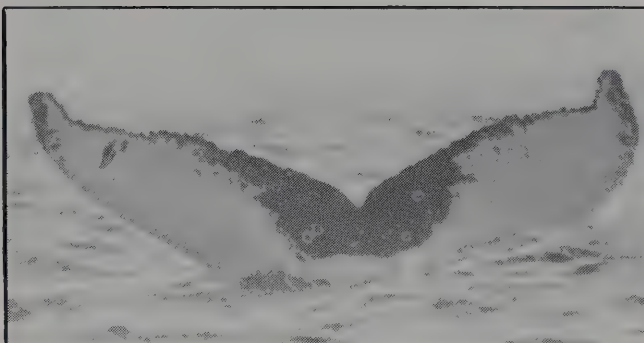




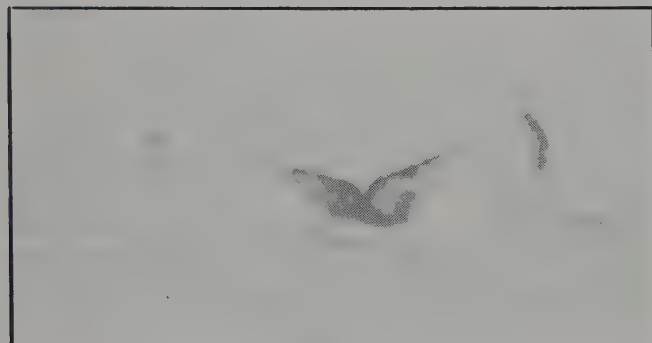
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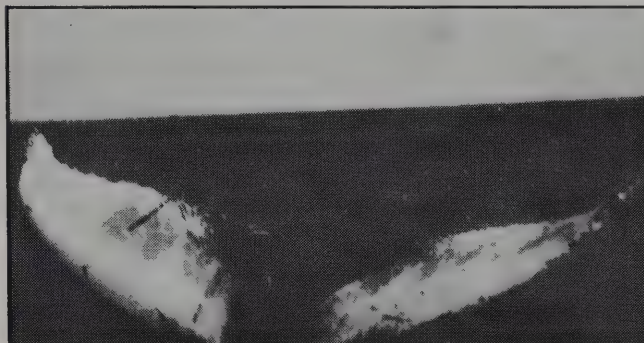
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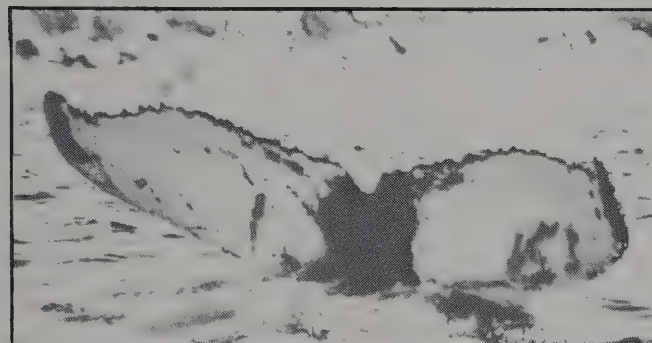
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1377



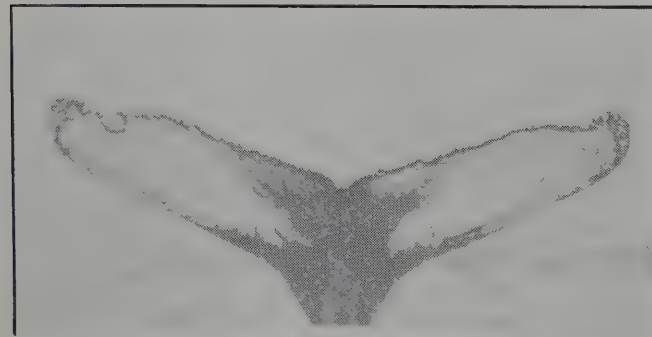
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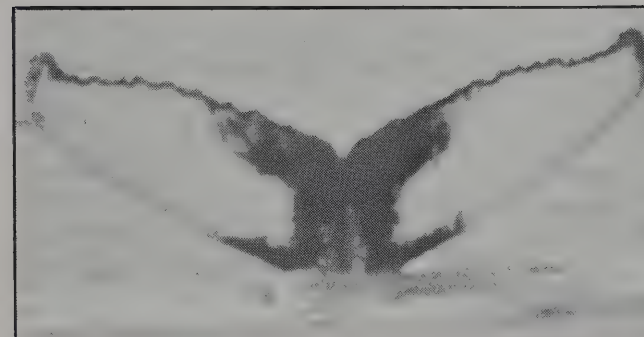
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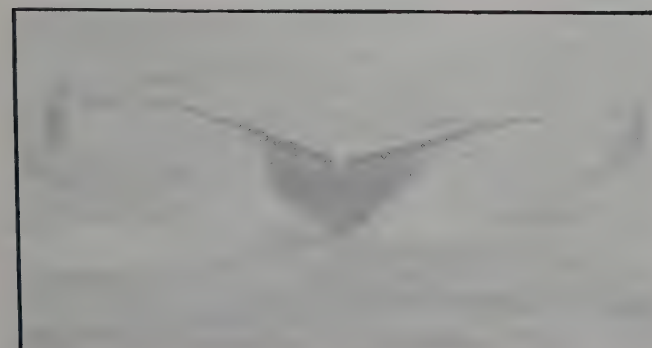
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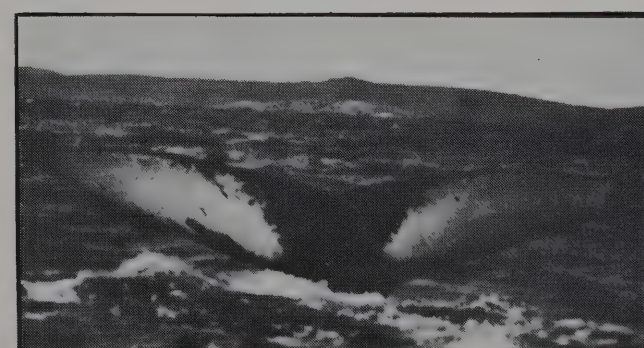
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1087



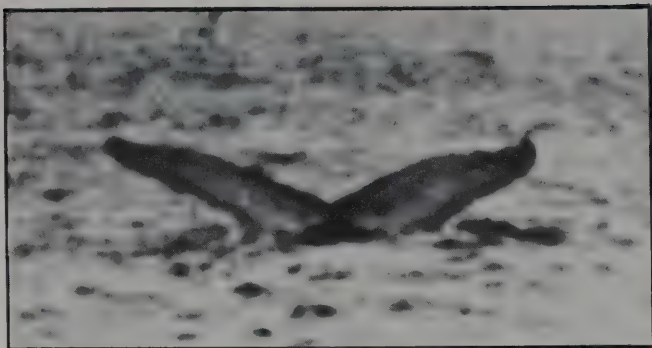
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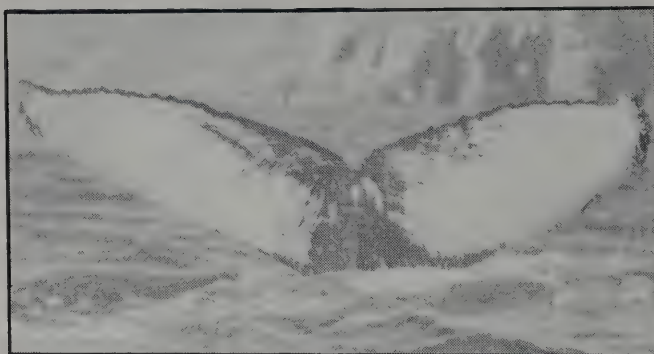
NEWFOUNDLAND 1978



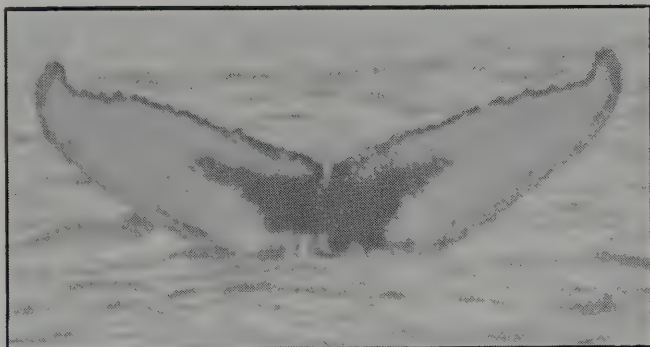
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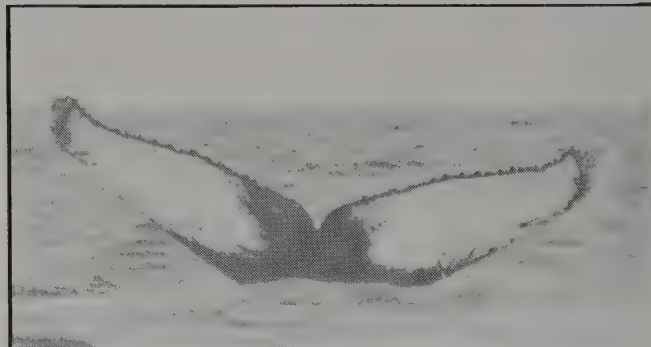
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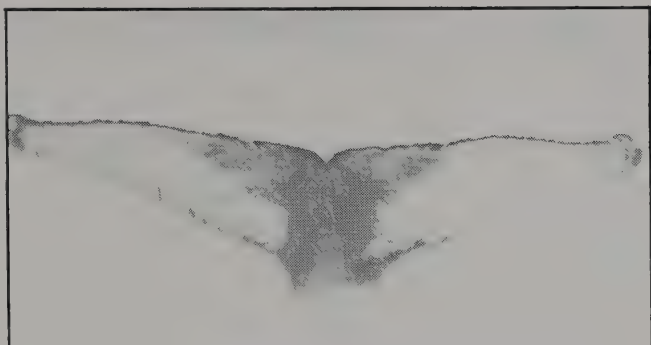
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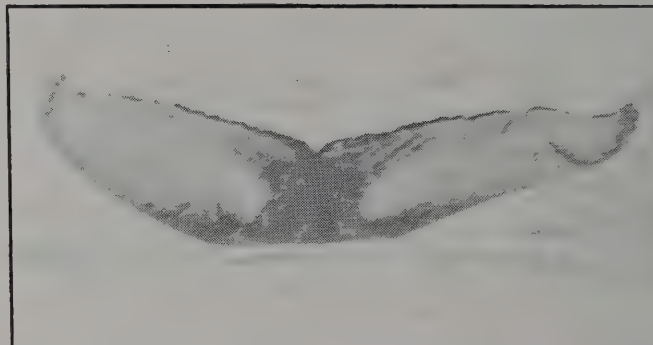
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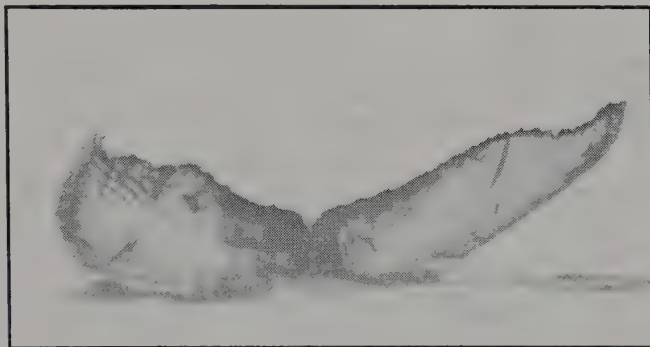
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1388



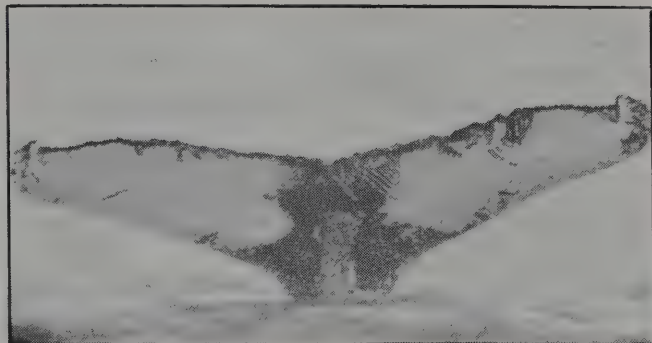
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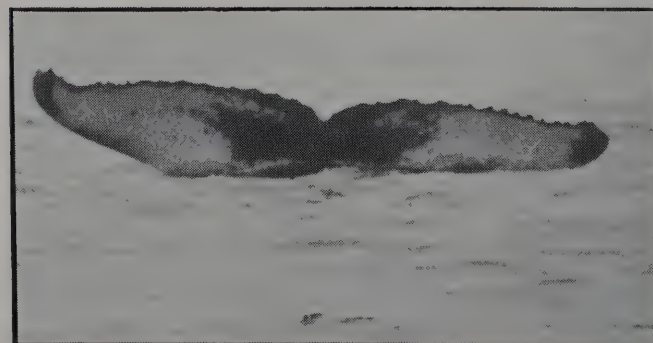
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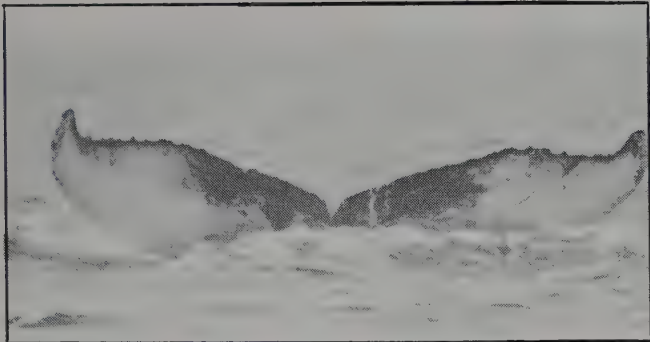


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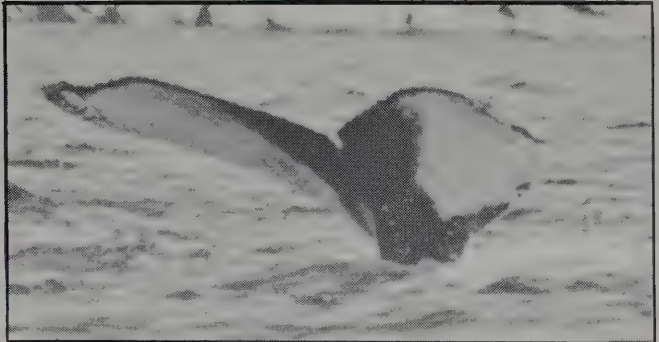




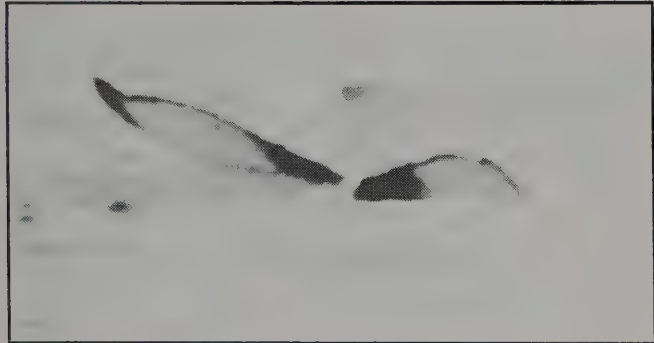
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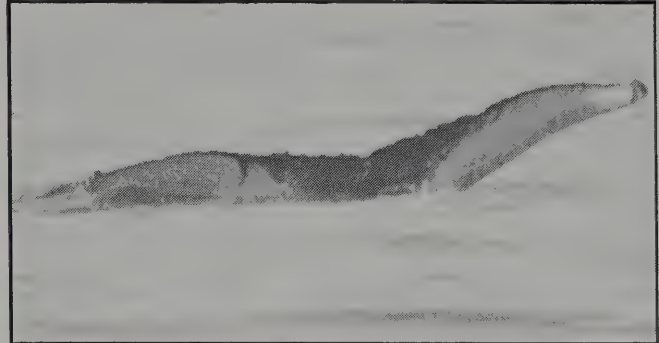
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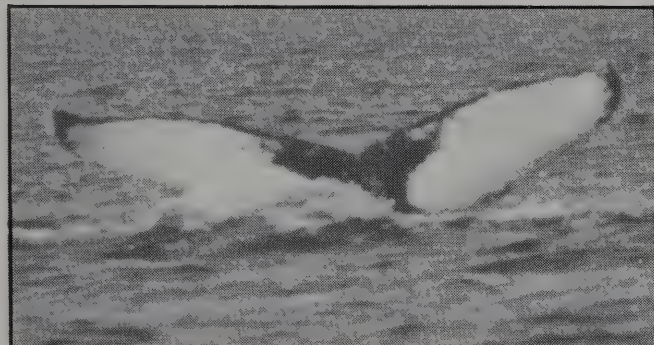
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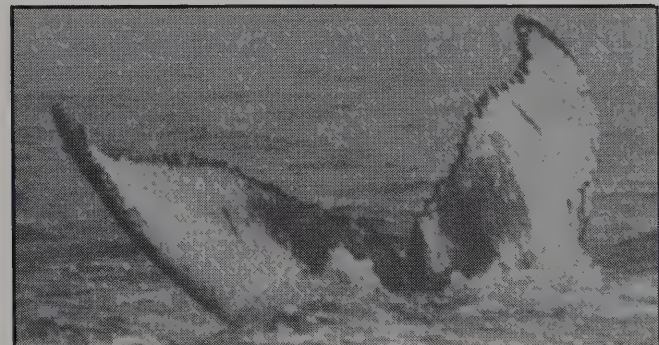
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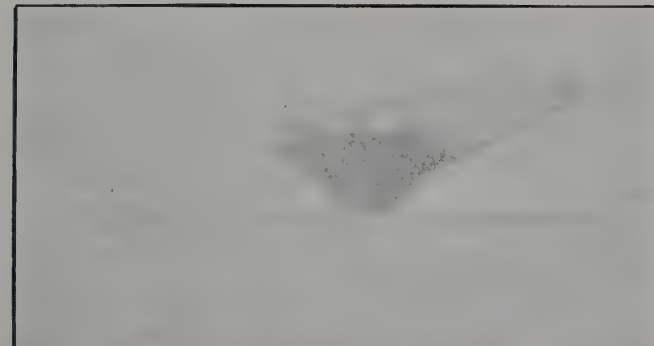
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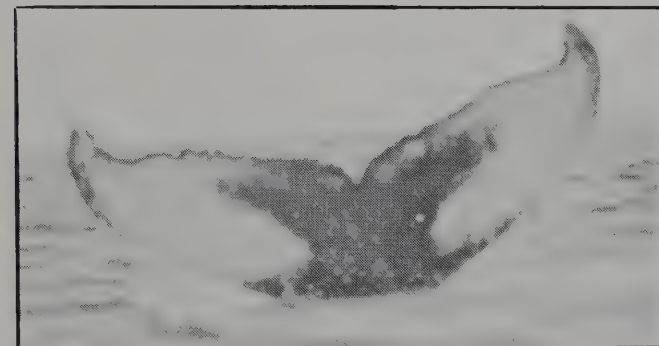
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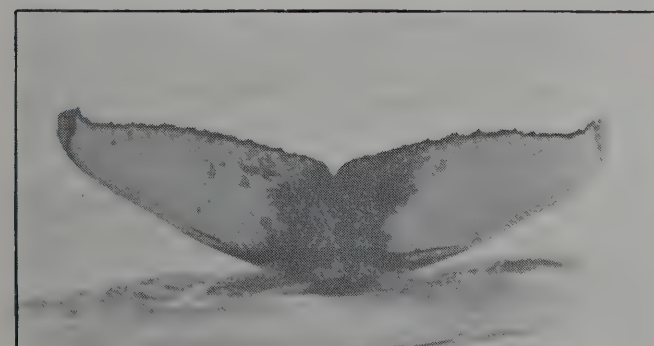
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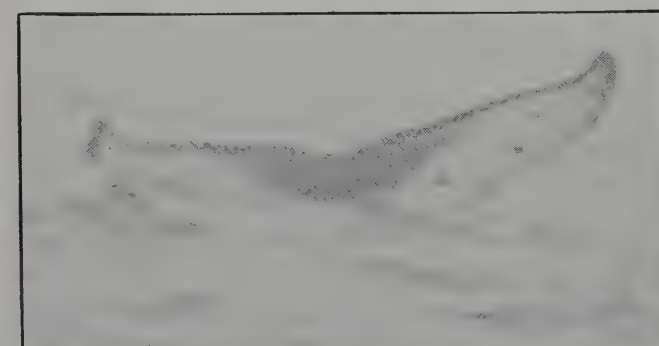
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1006



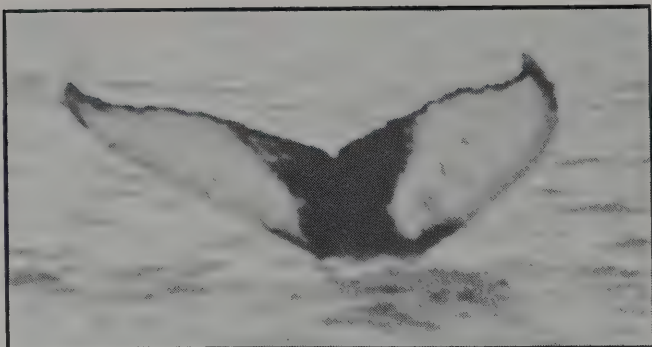
1103



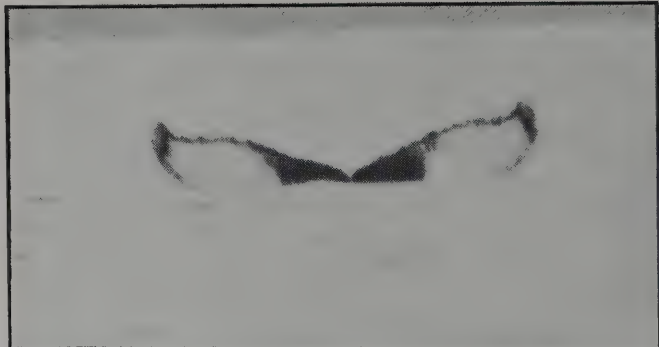
NEW  
FOUND  
LAND  
1978



1347



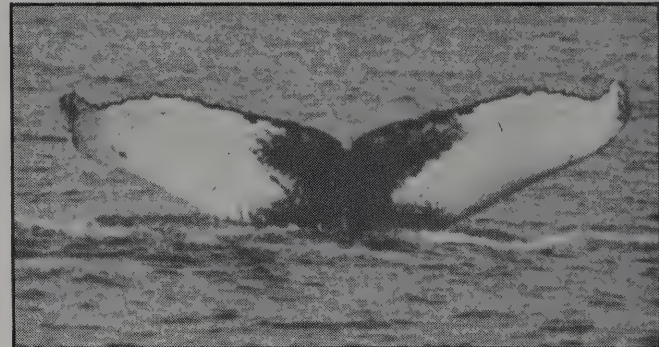
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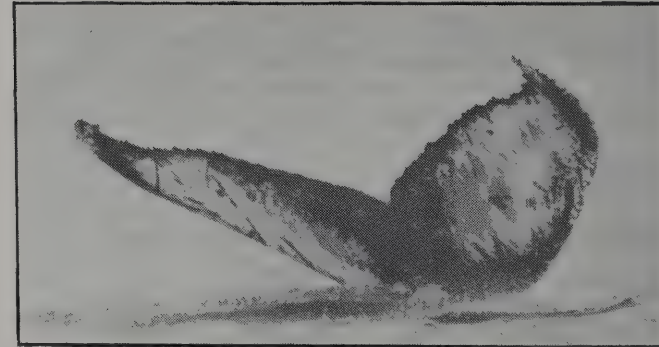
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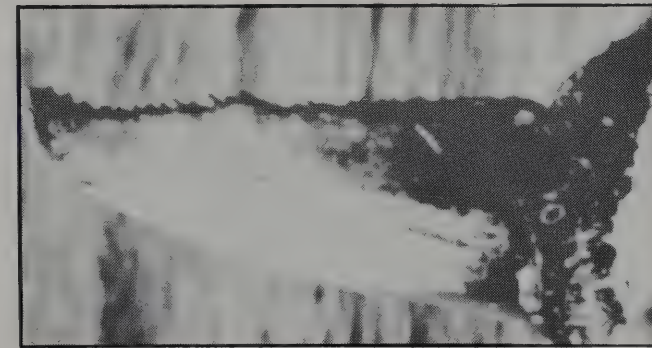
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1014



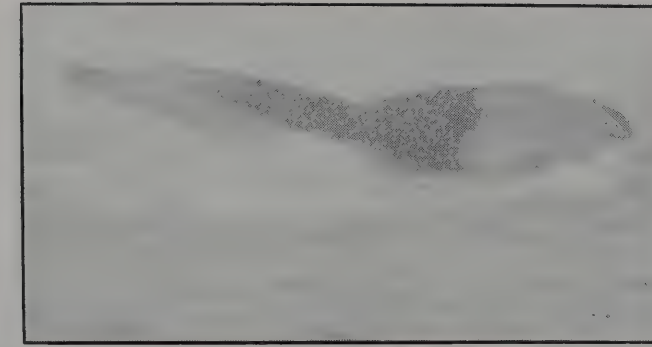
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1001



1237

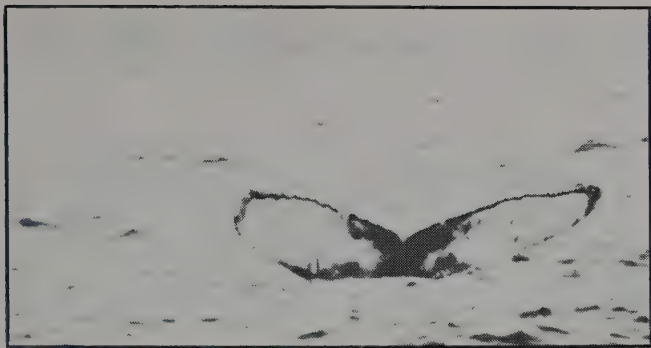


1170





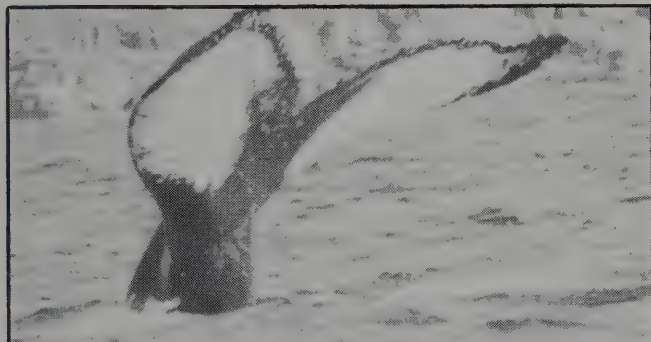
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1094



1182A



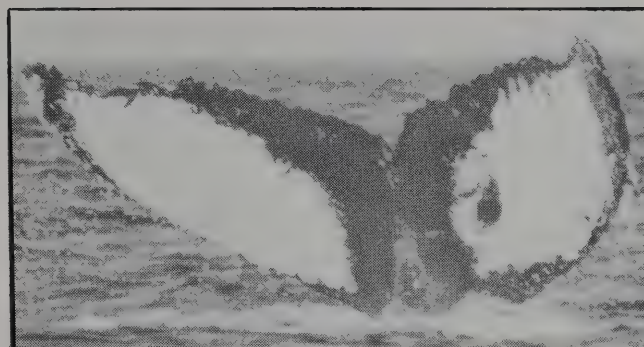
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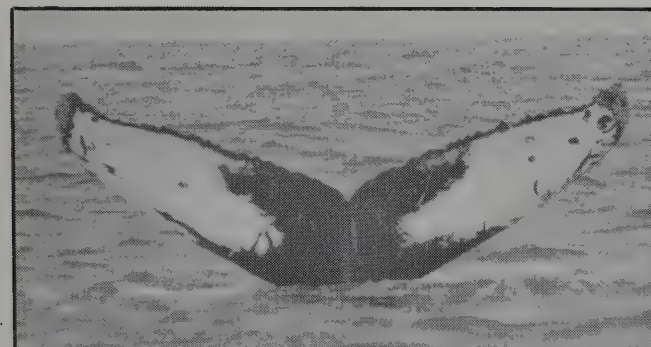
1182B



1137



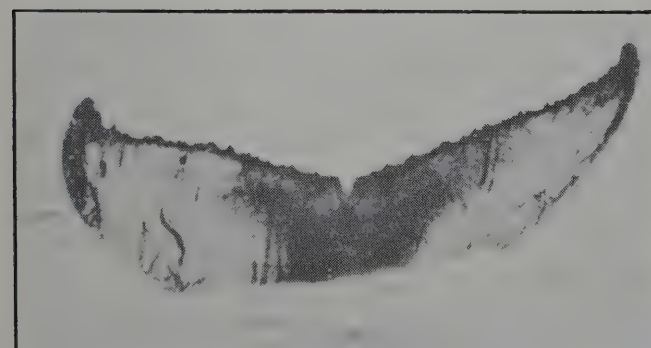
1011



1056



1158



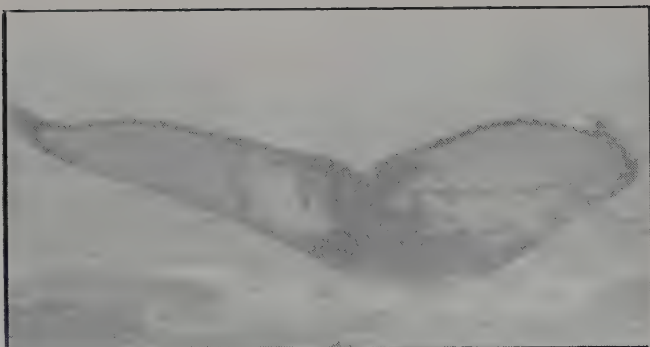
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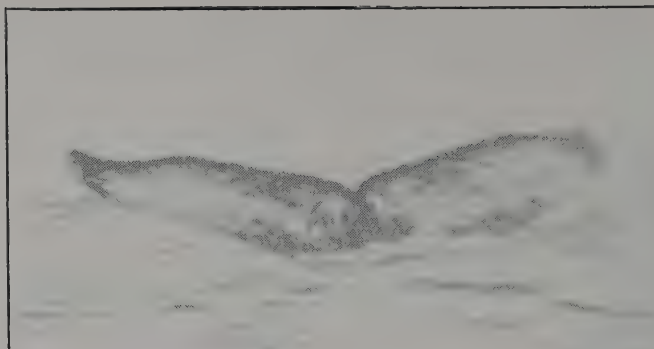
NEW  
FOUND  
LAND  
1978



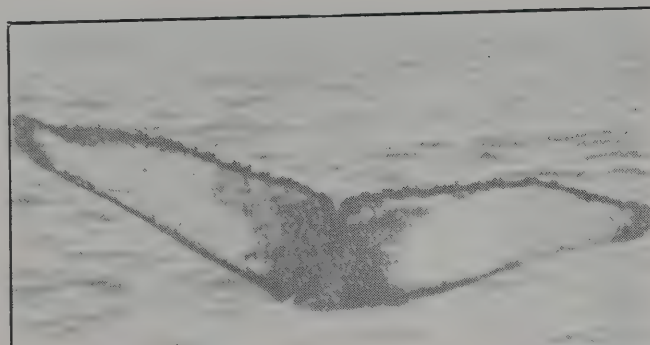
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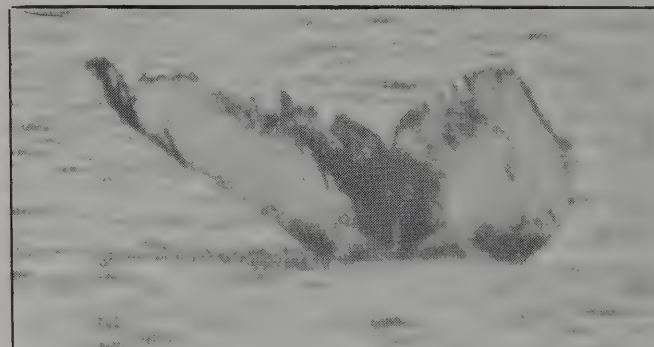
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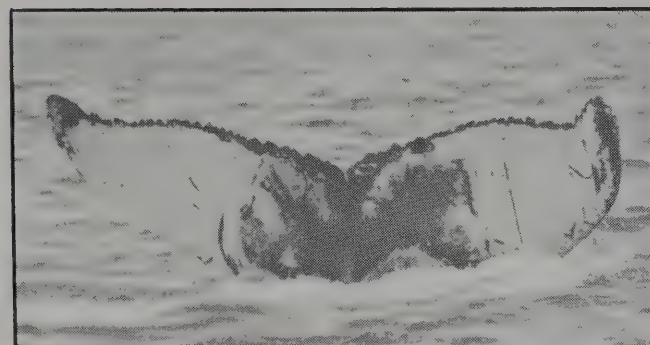
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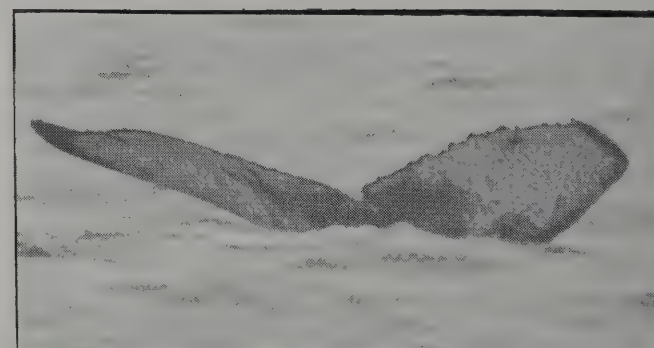
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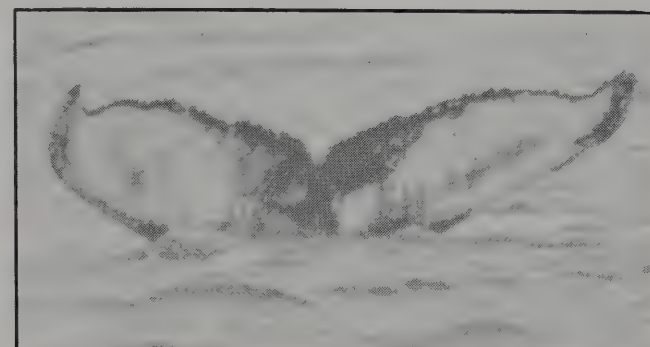
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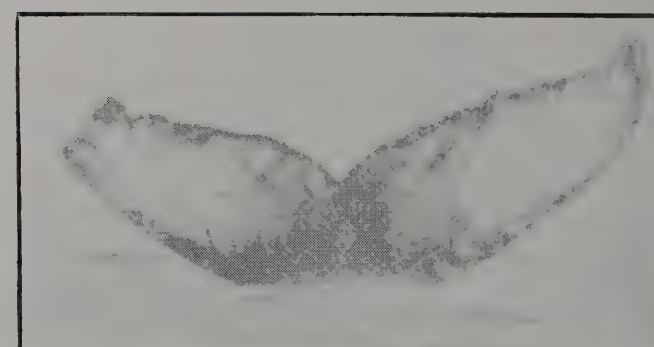
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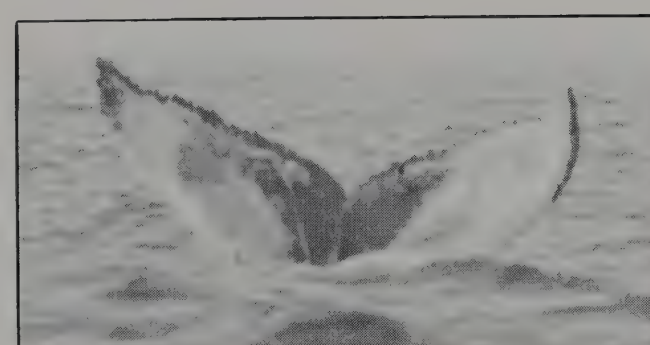
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1084



1086

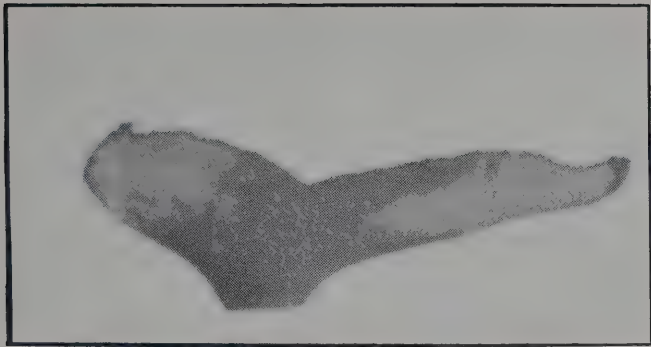


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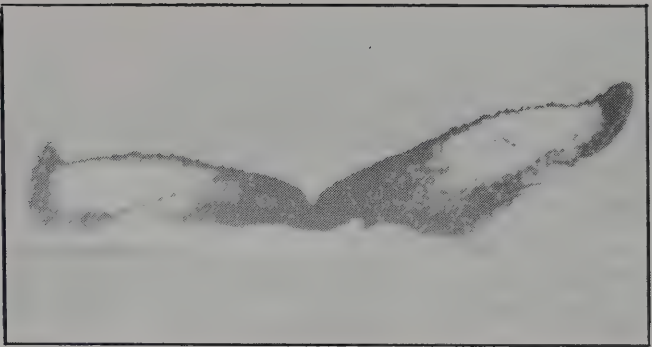




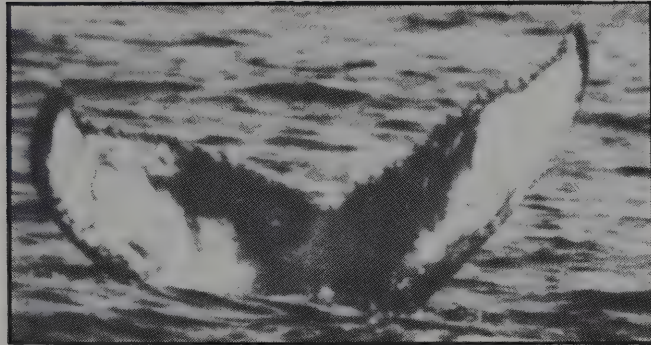
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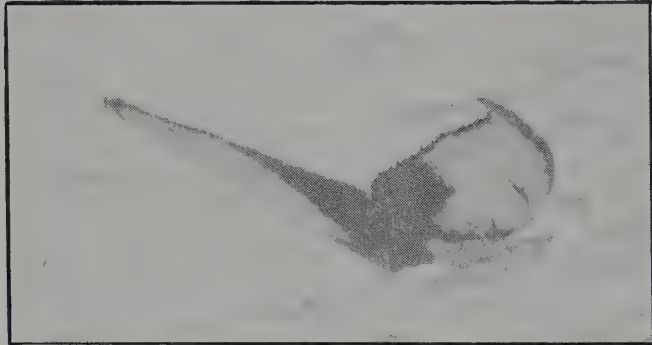
1105



1107



1184



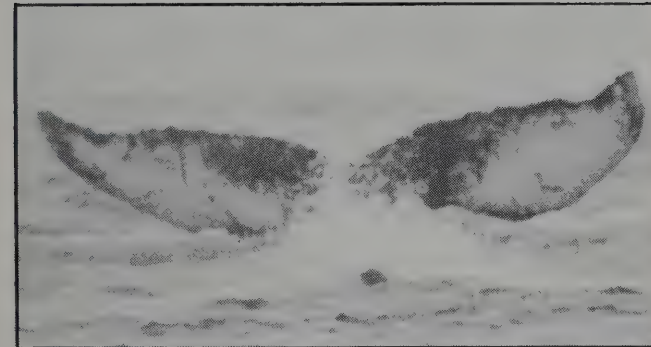
1151



1003



1216



1186



1185



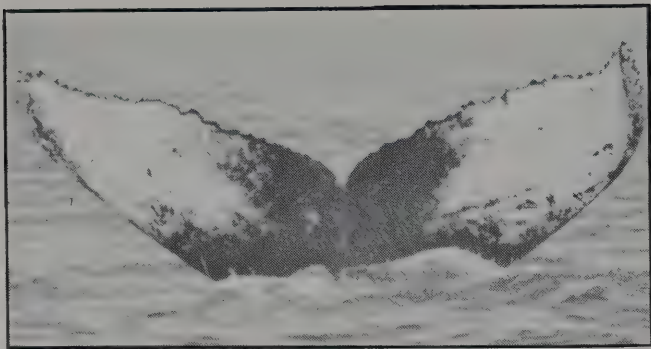
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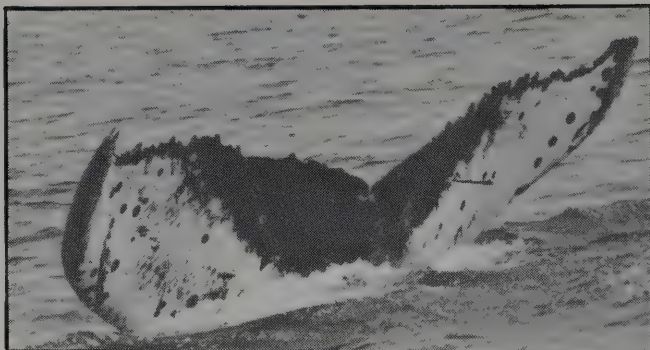
NEWFOUNDLAND 1978



1033



1026



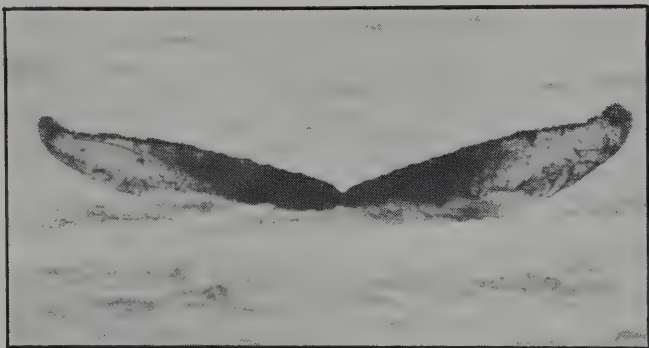
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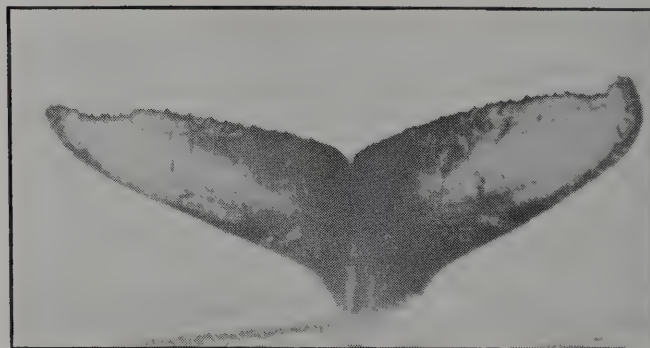
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1085



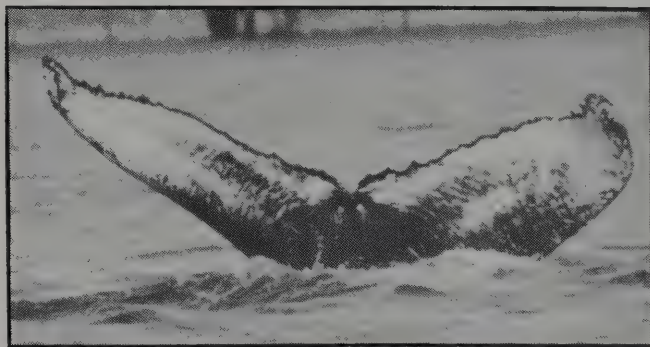
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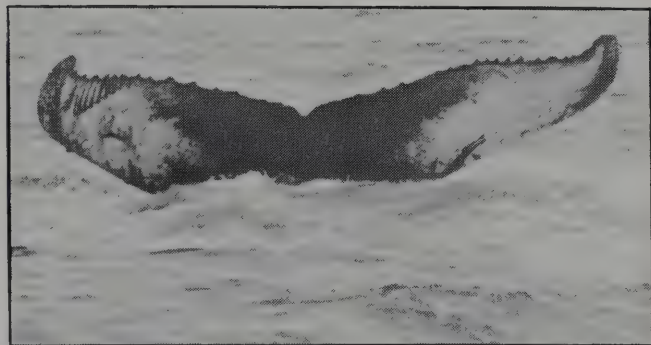
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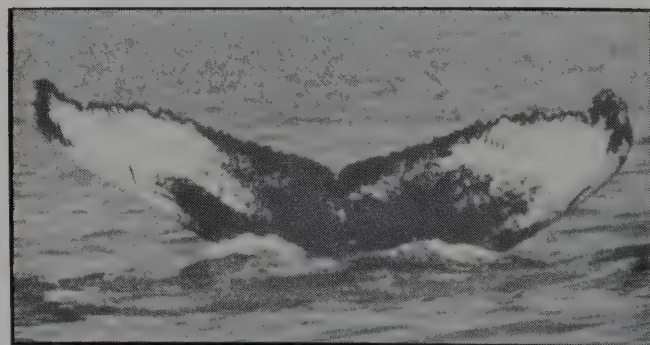
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1072

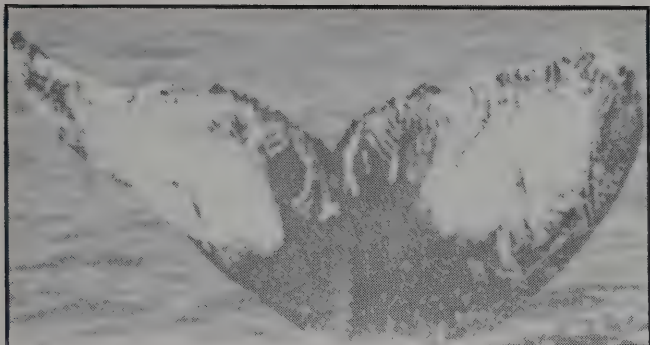


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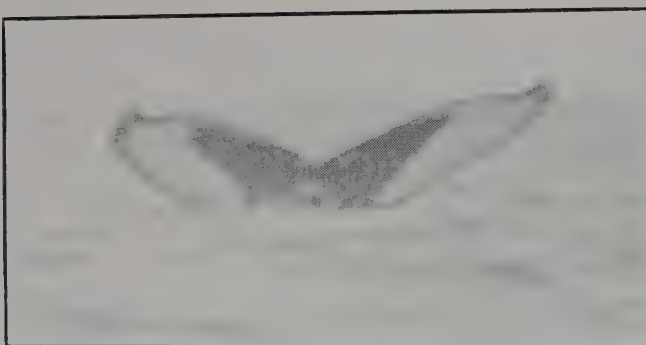




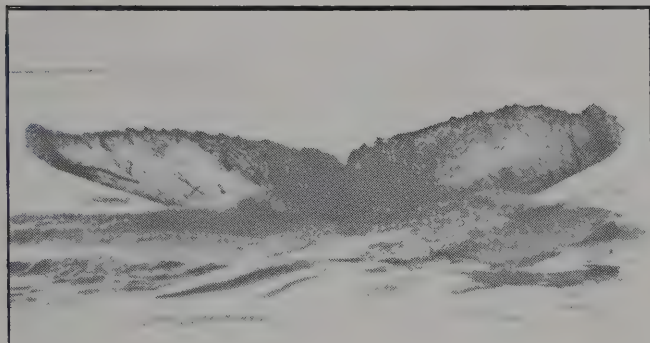
1104



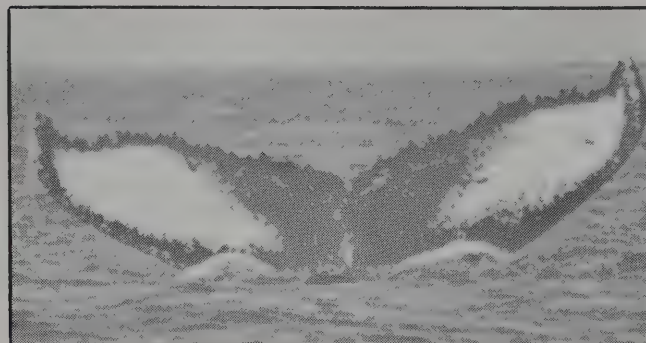
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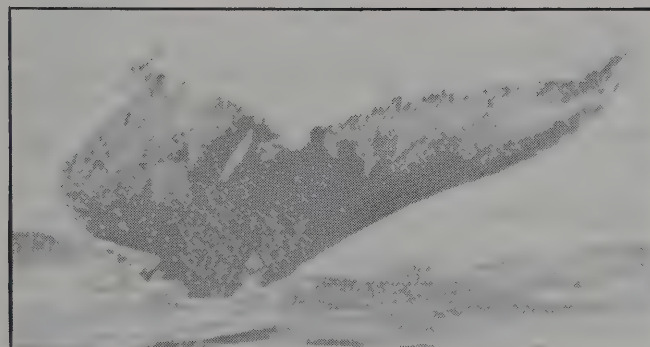
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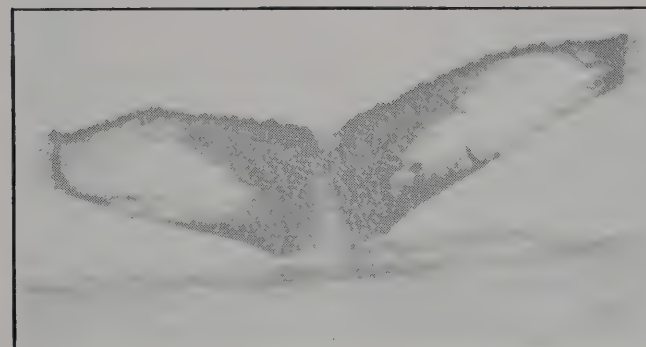
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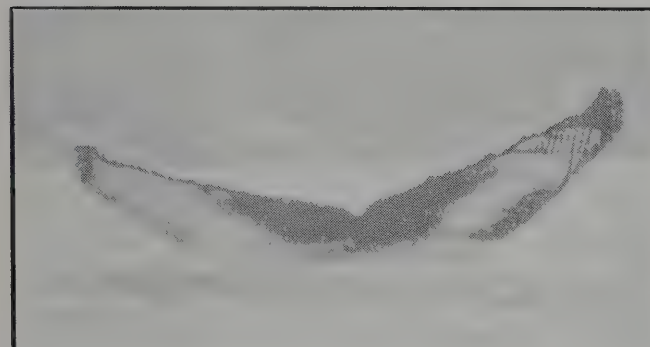
1024



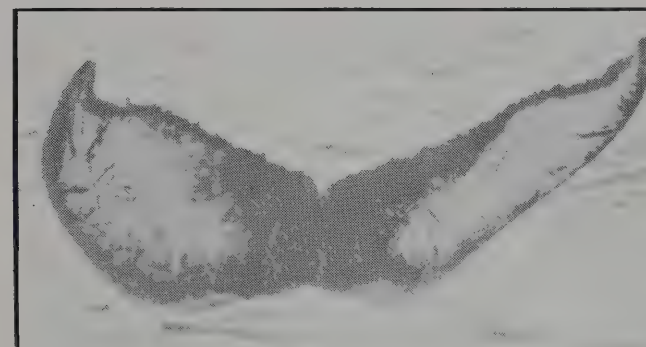
1019



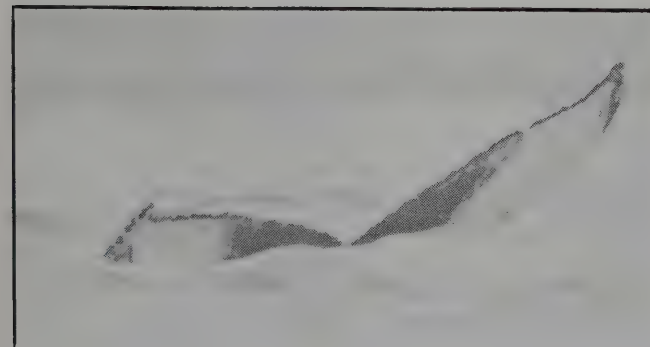
1190



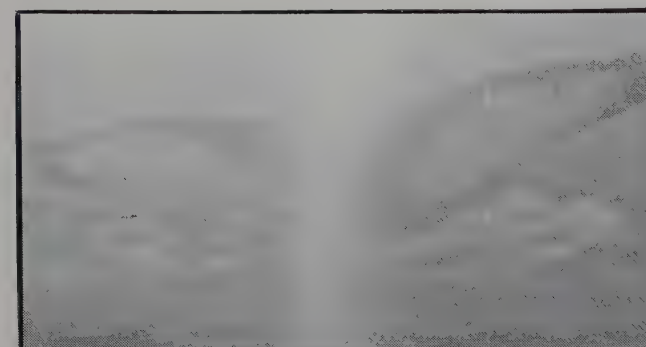
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1209



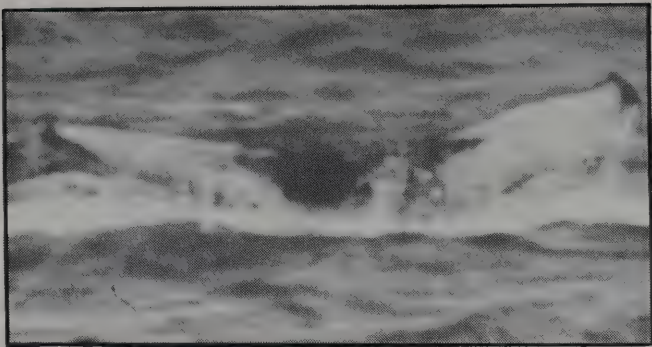
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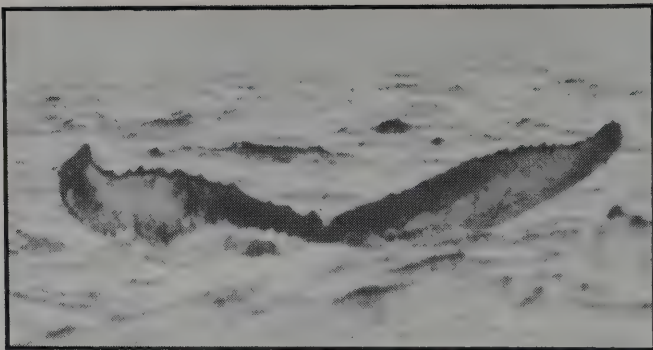
NEW  
FOUND  
LAND  
1978



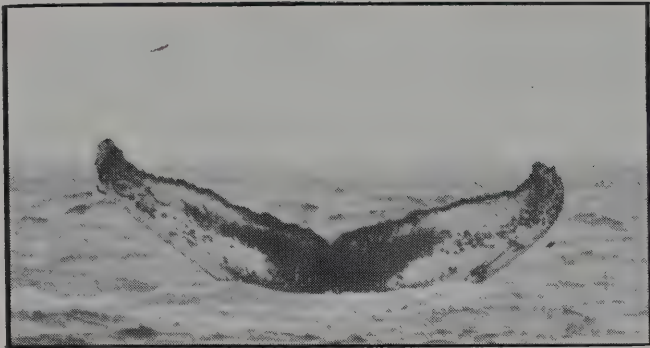
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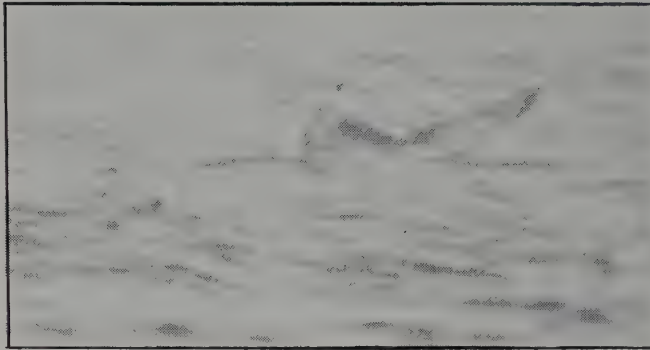
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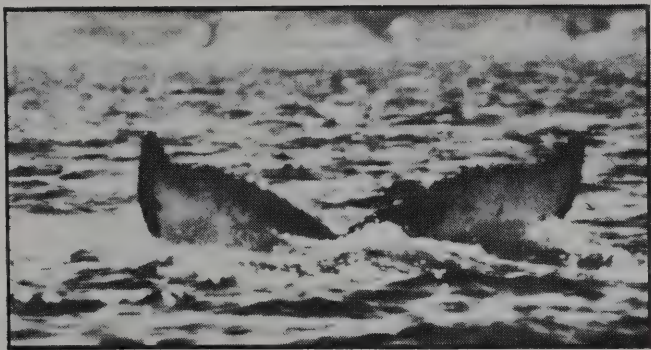
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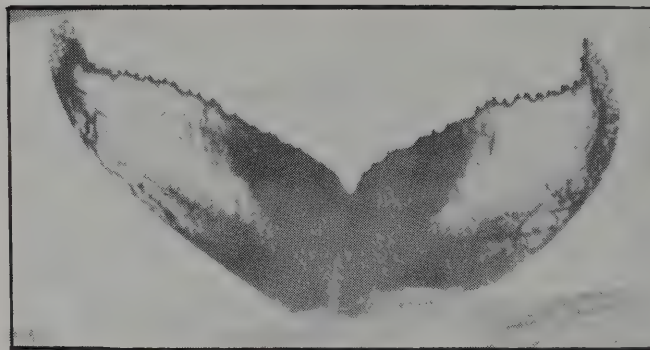
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1381



1030



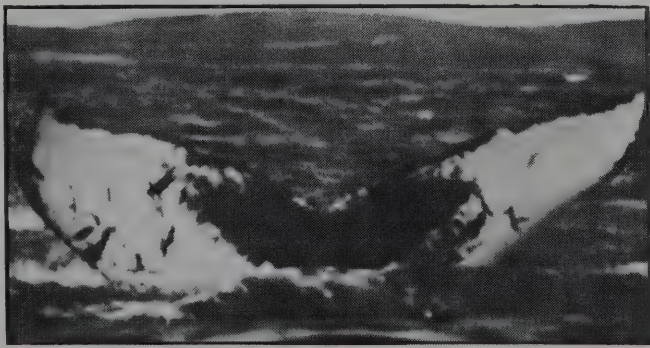
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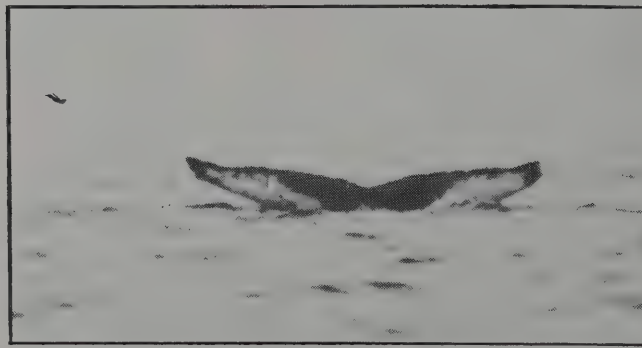
1229



1371

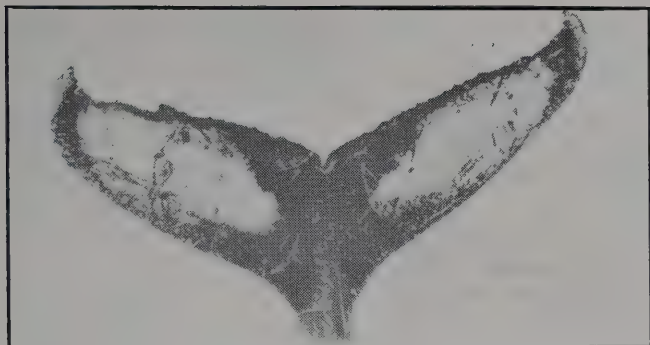


1232

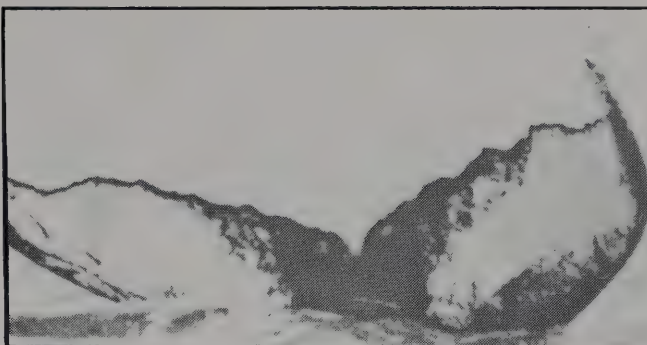




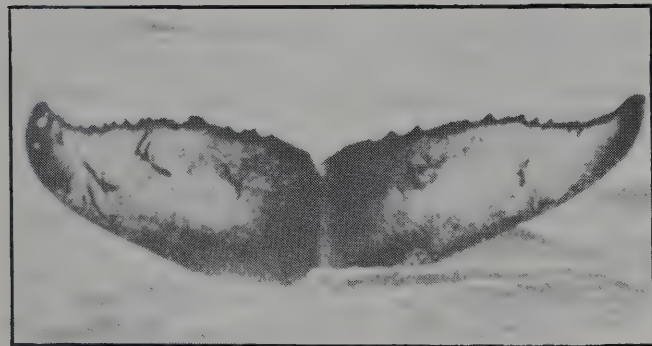
1223



1336



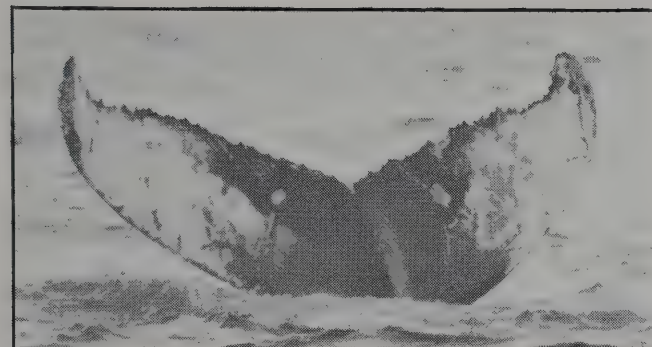
1171



1305



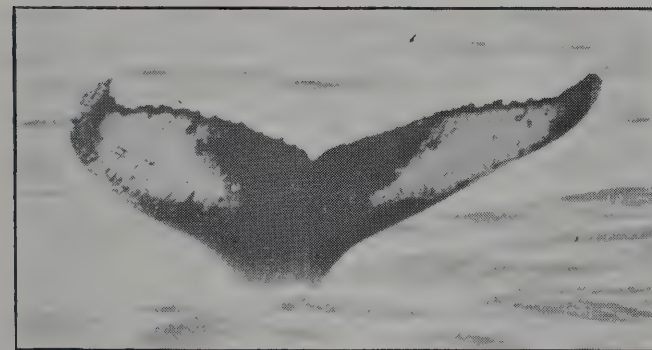
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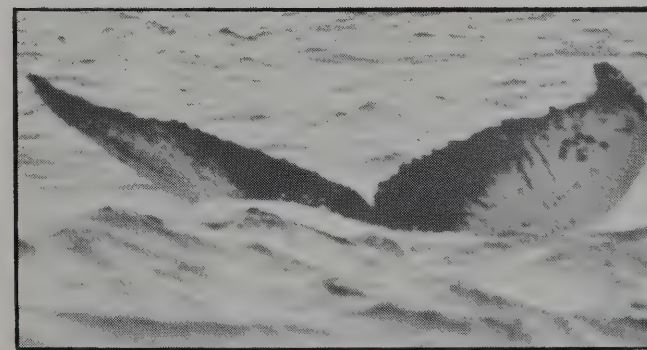
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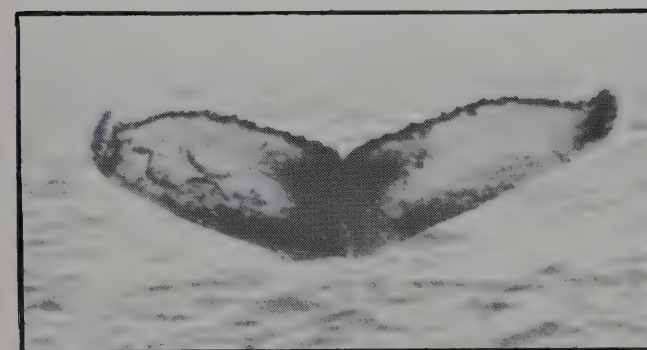
1359



1368



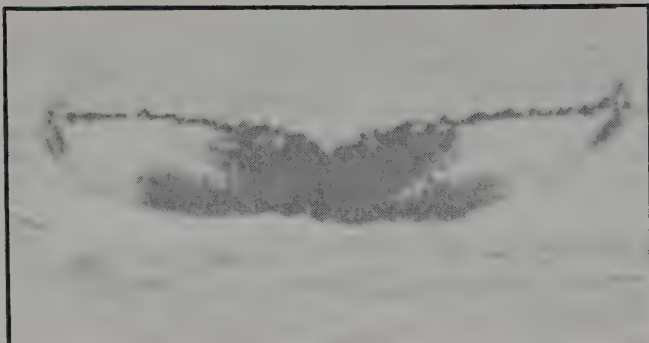
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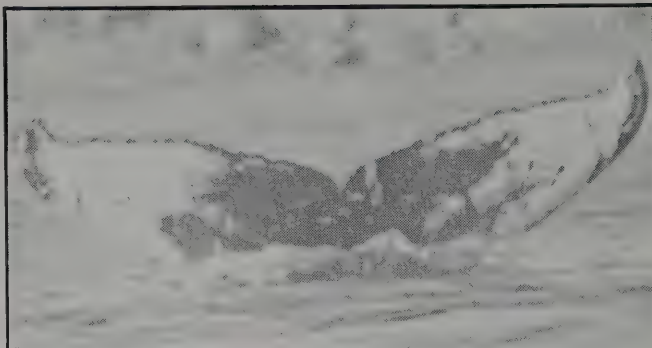
NEW  
FOUND  
LAND  
1978



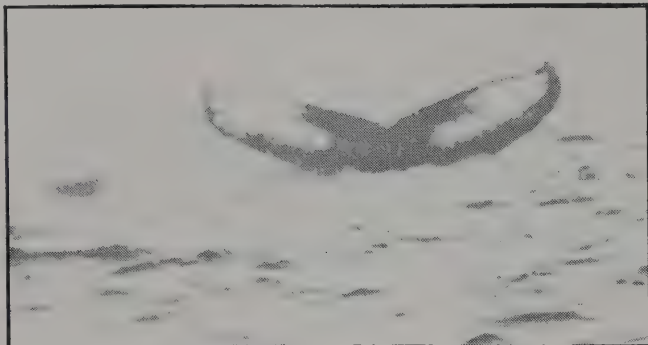
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1048



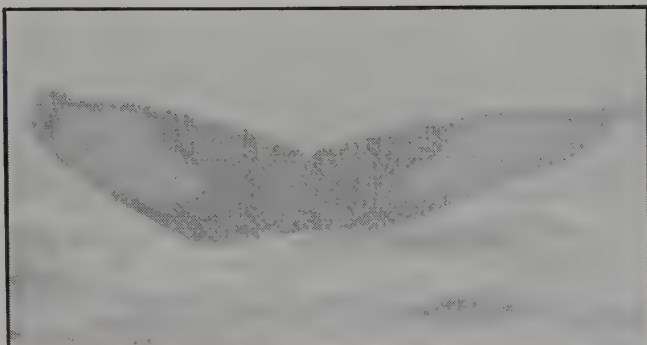
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1365



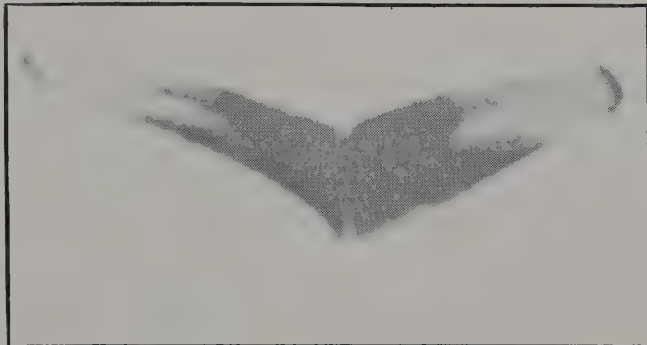
1111



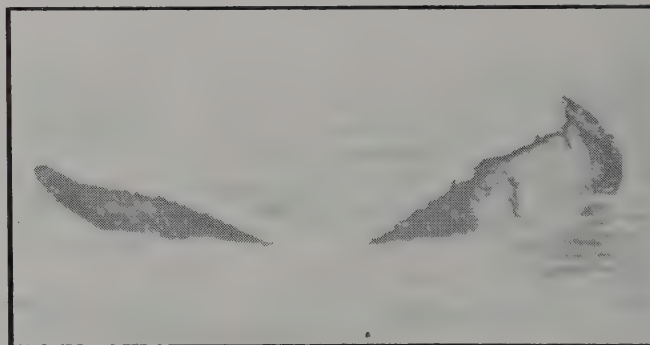
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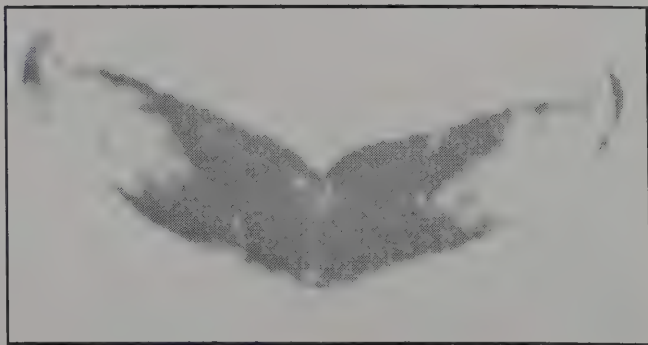
1239



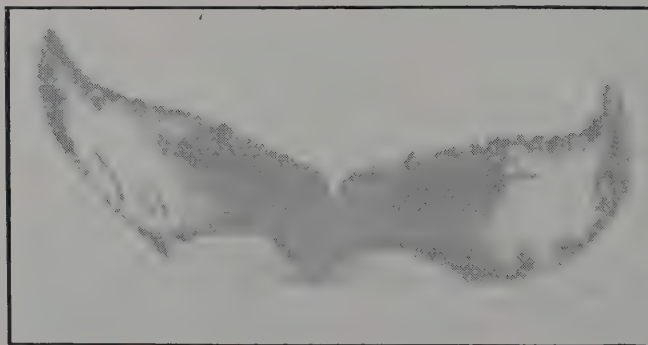
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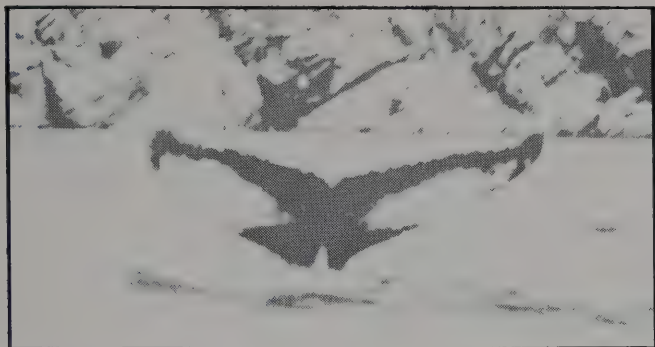
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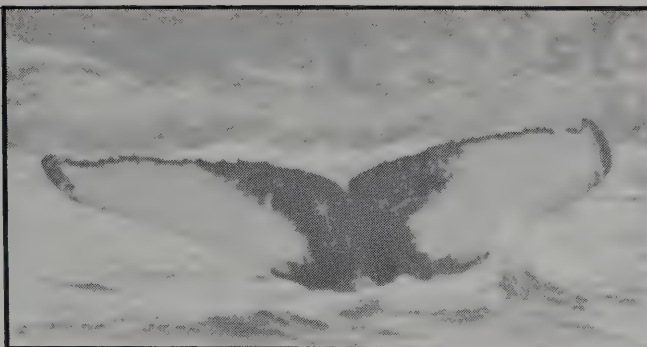
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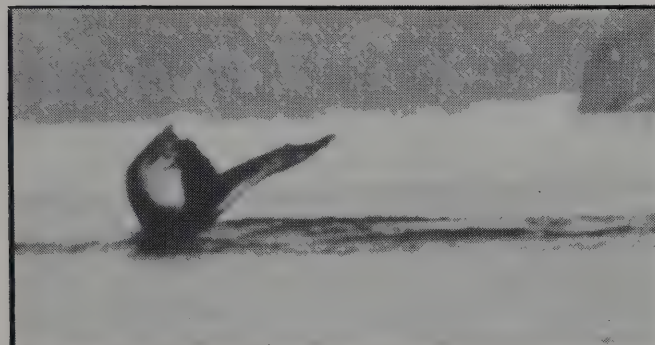
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1394



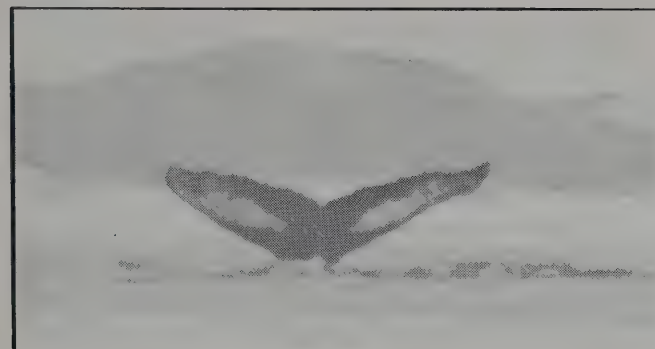
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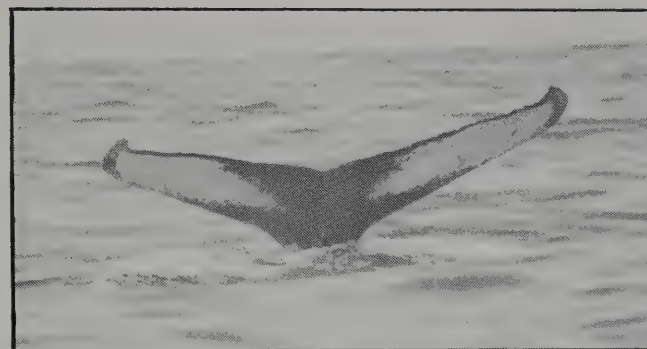
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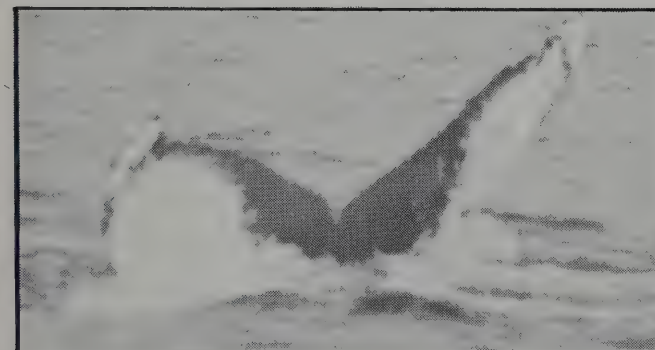
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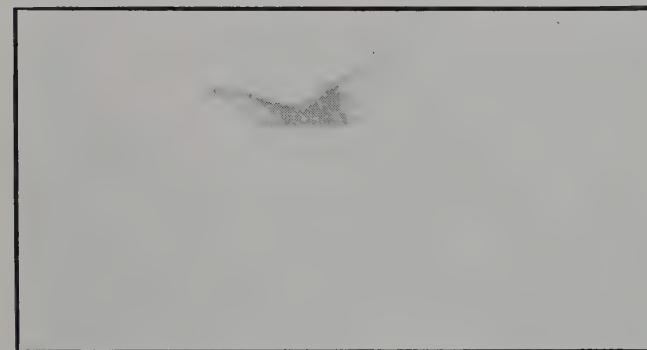
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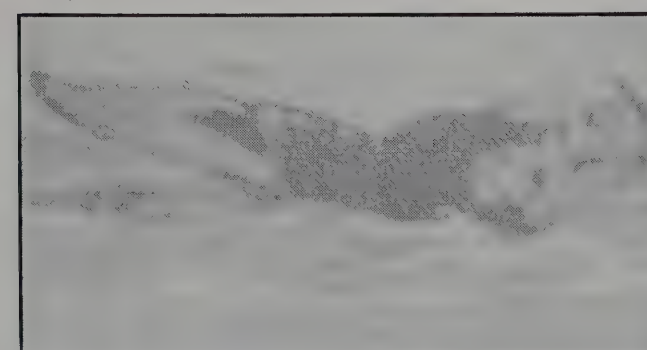
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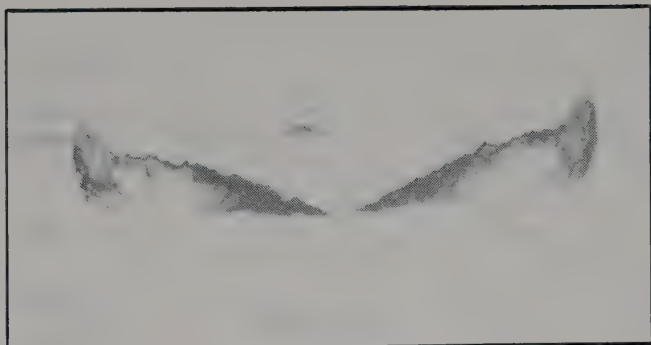
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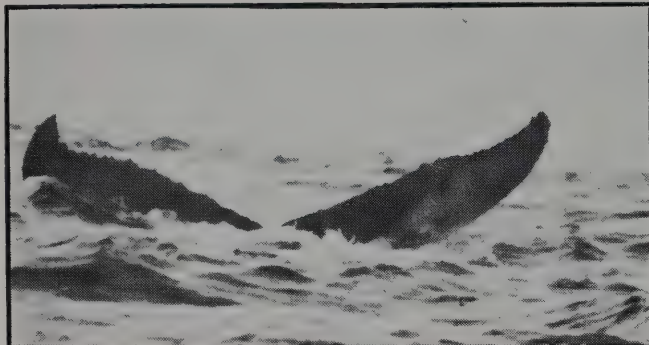
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1129



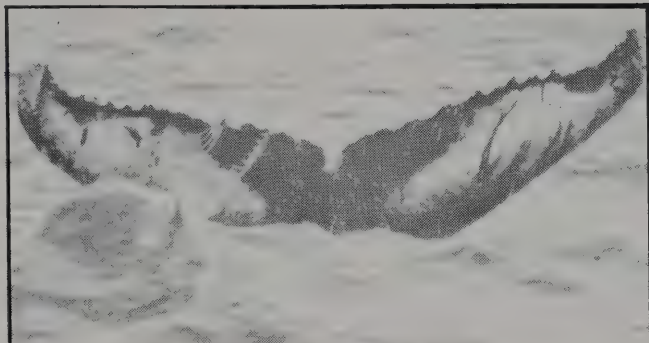
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1398



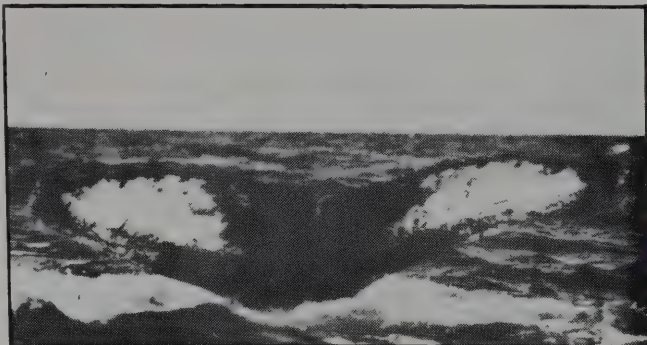
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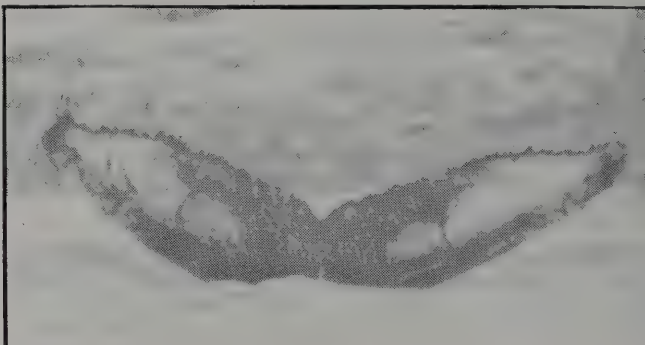
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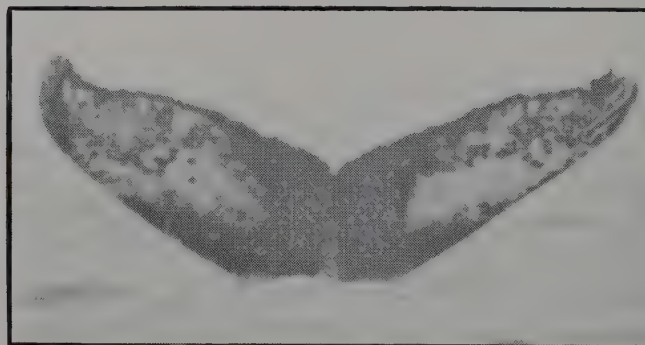
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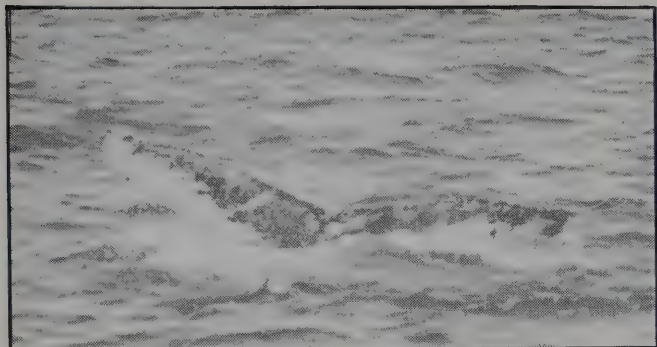


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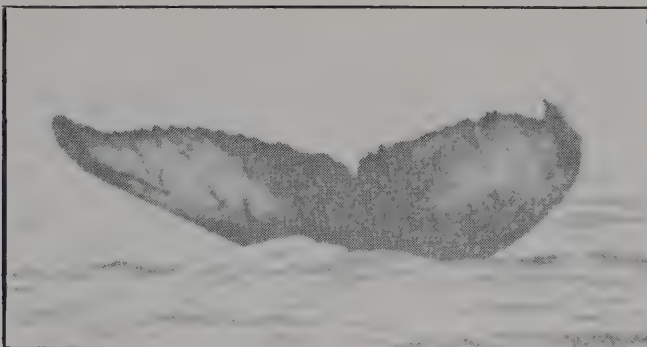




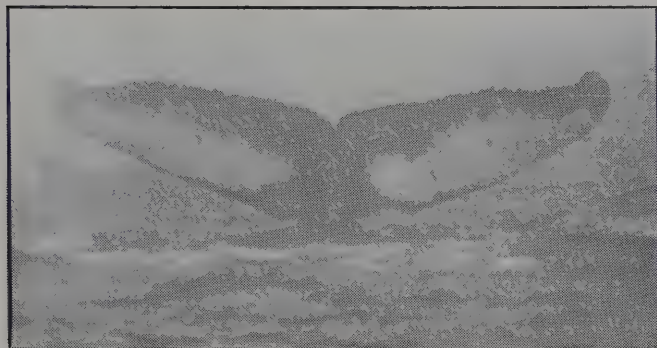
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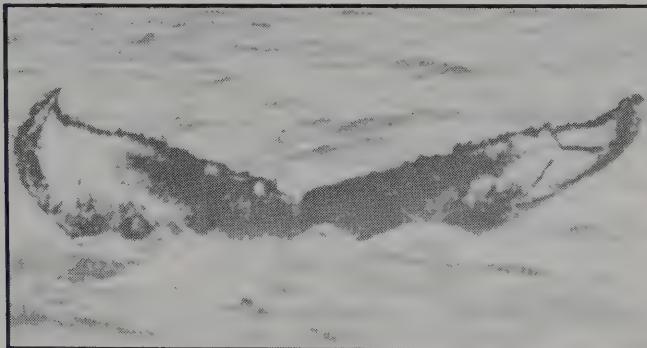
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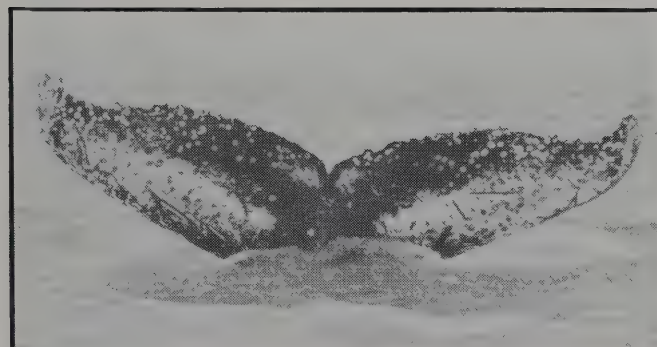
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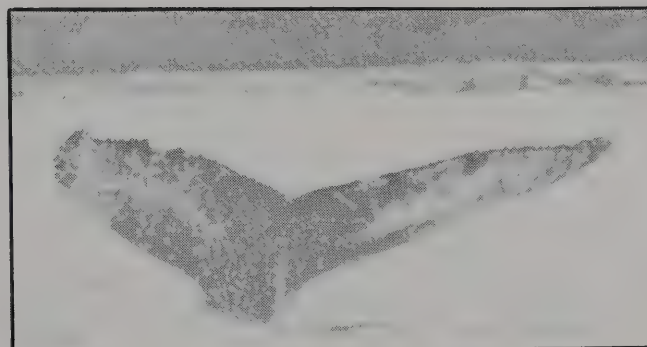
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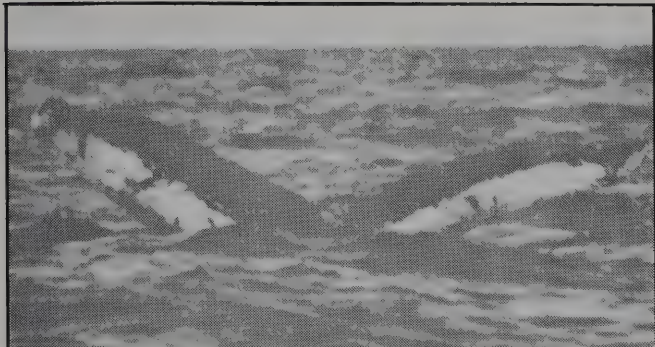
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1029



1366



1247



1319



1246

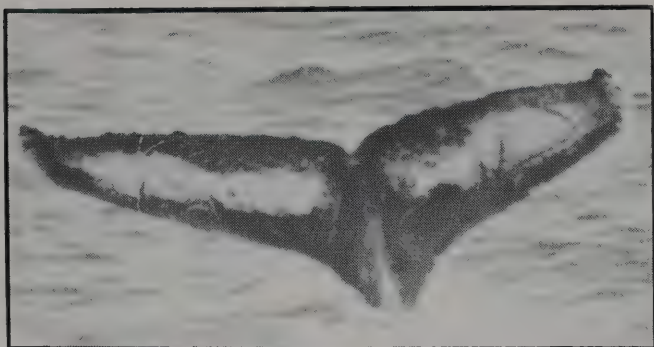


NEWFOUNDLAND 1978

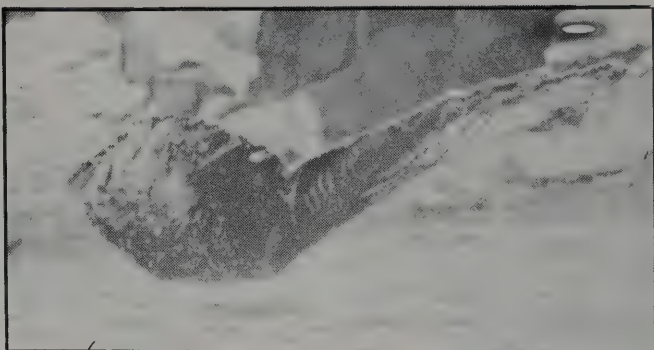
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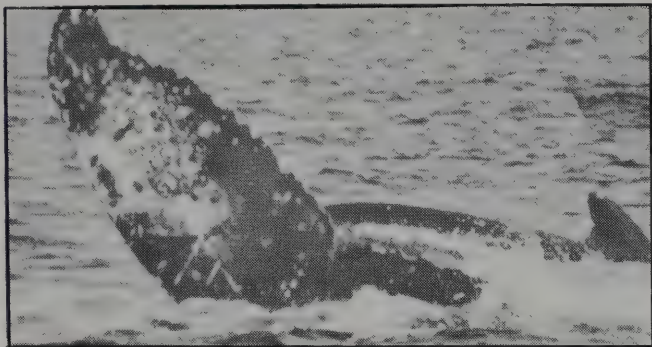
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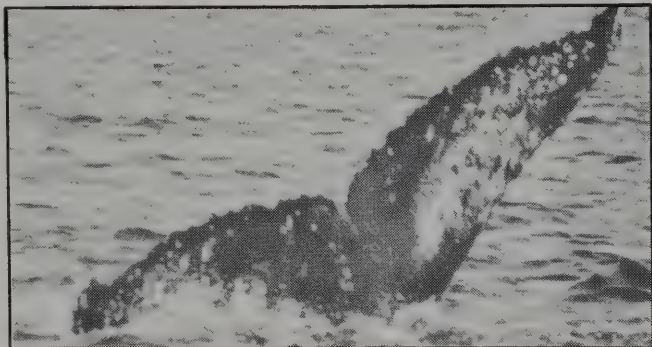
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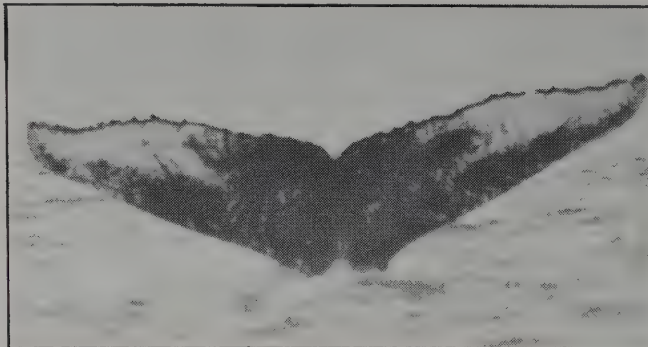
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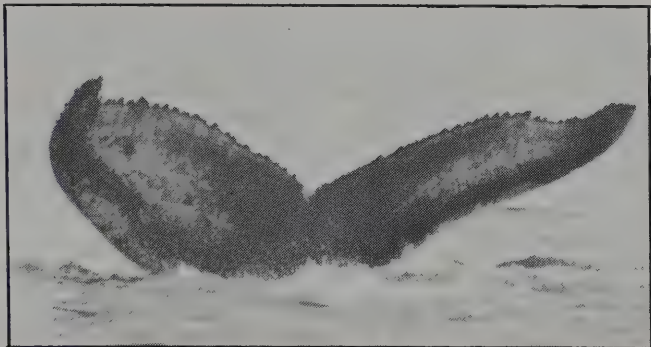
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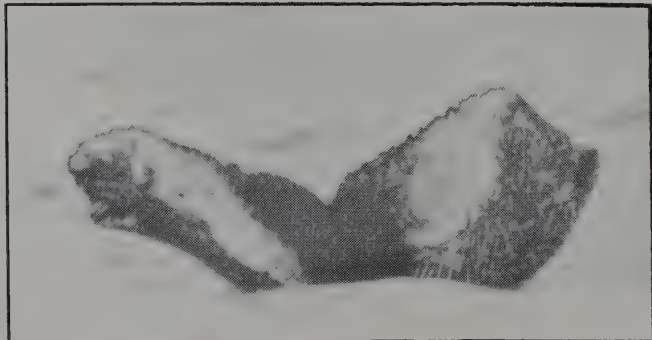
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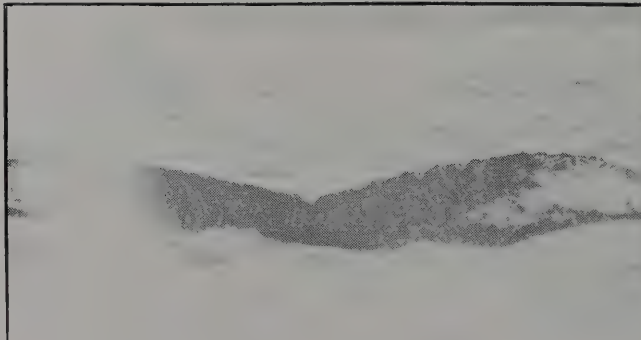
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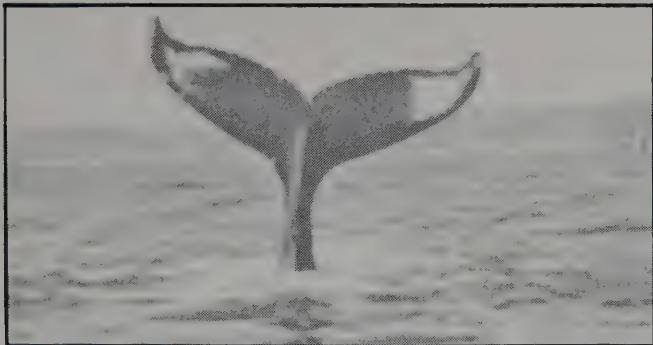


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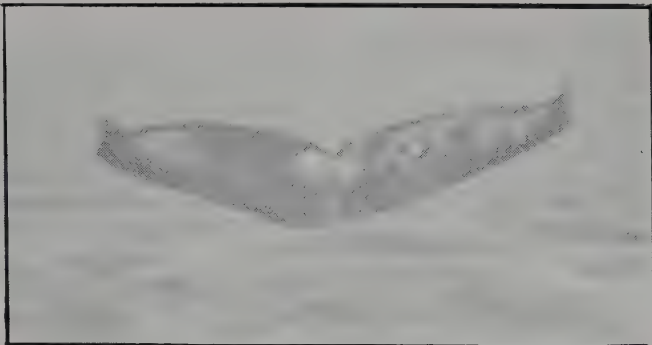




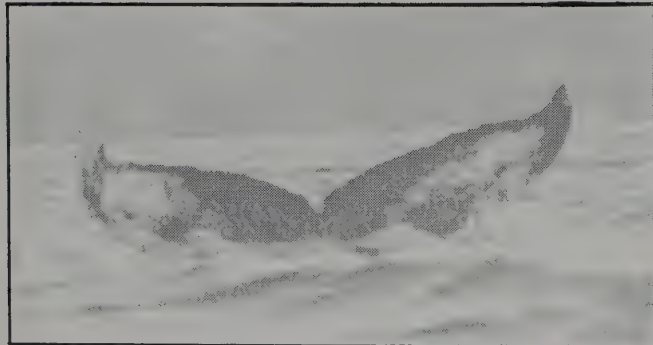
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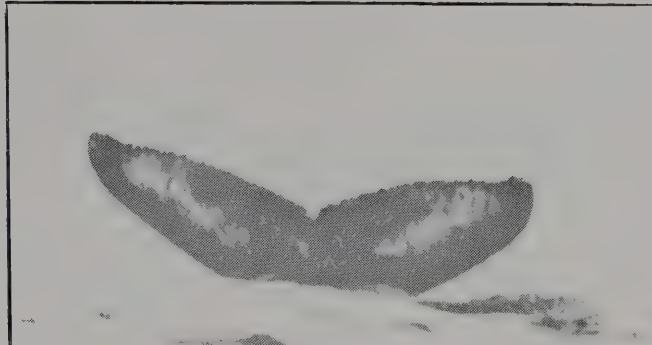
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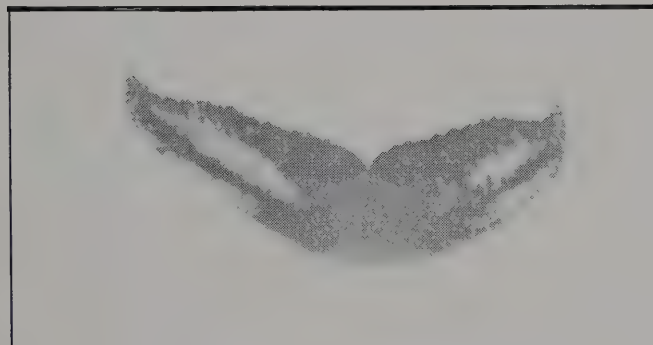
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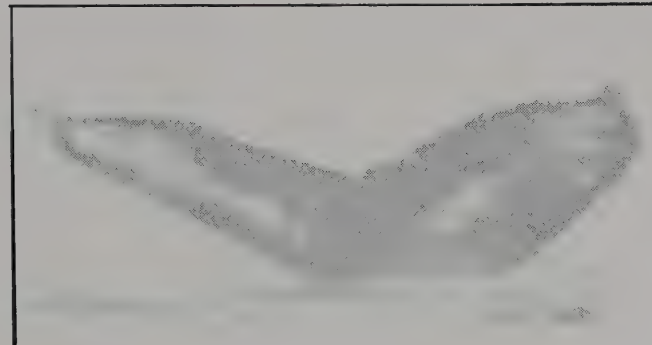
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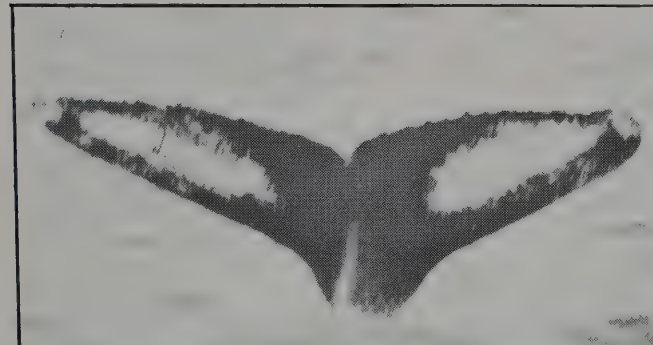
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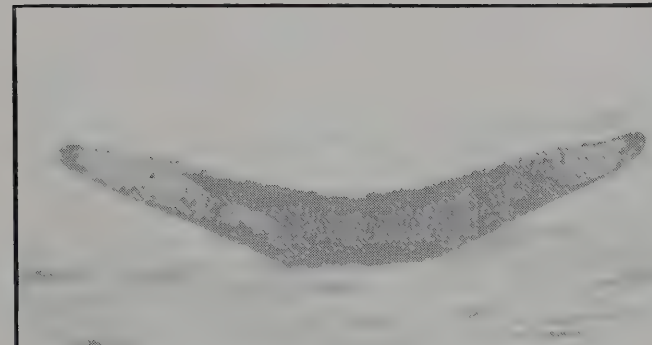
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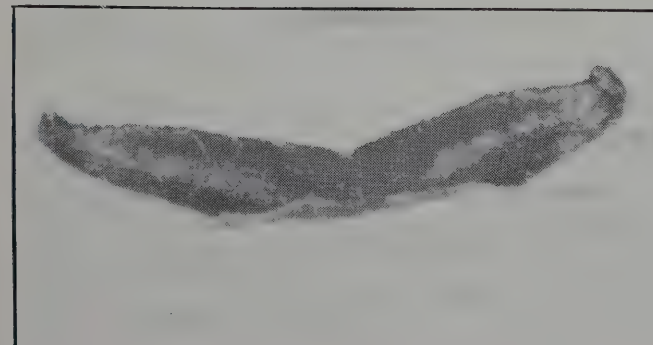
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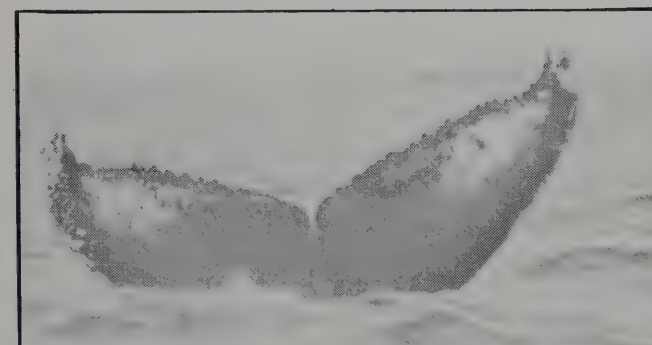
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1326



1078



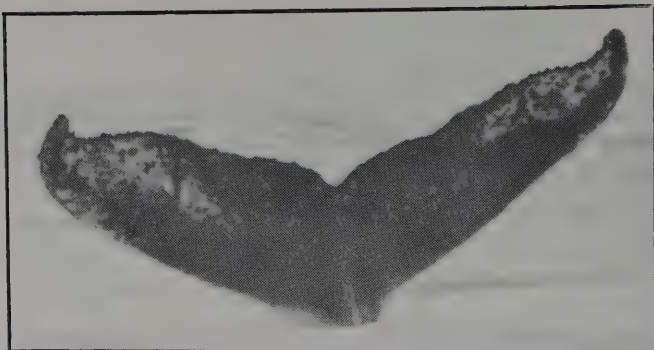
NEWFOUNDLAND 1978



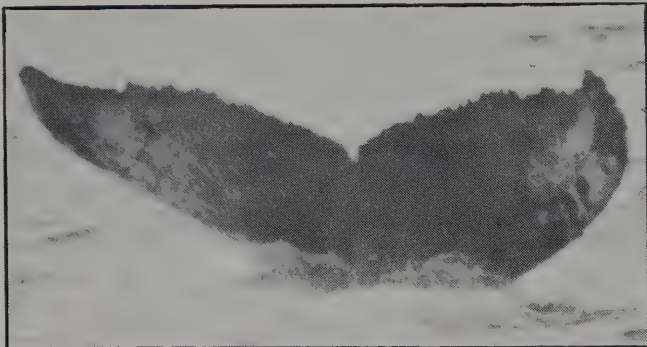
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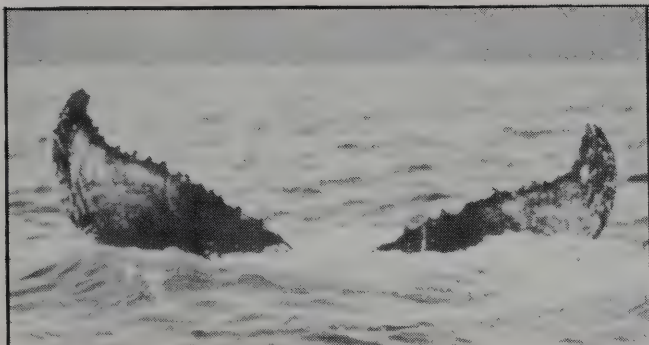
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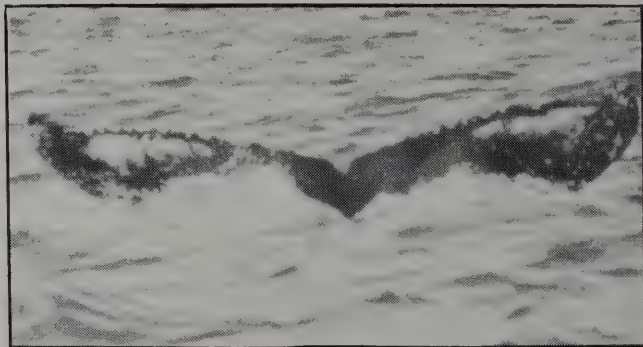
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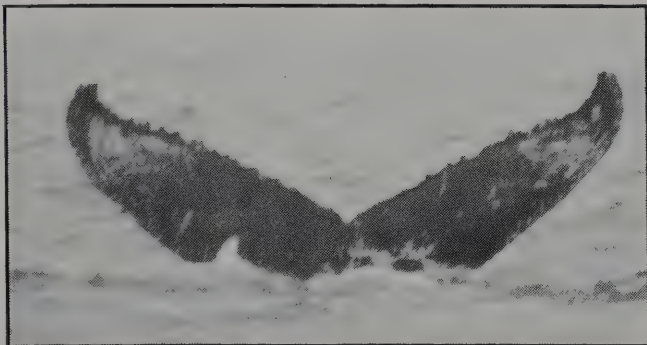
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1386



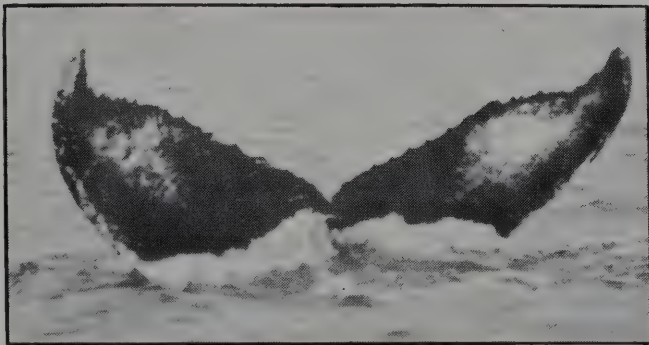
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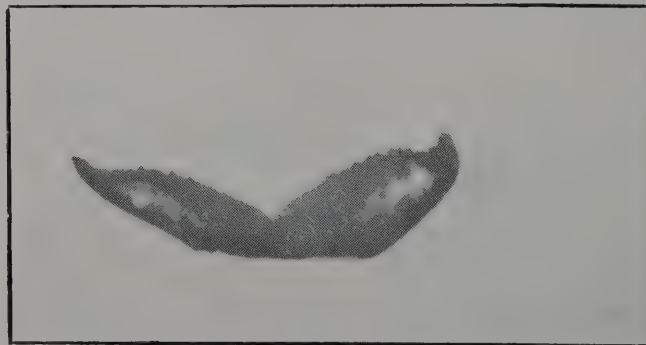
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1349

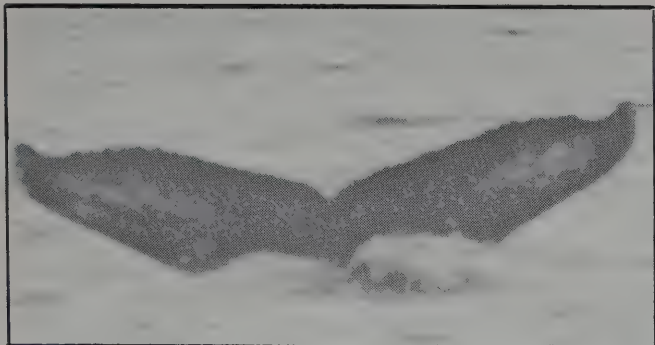


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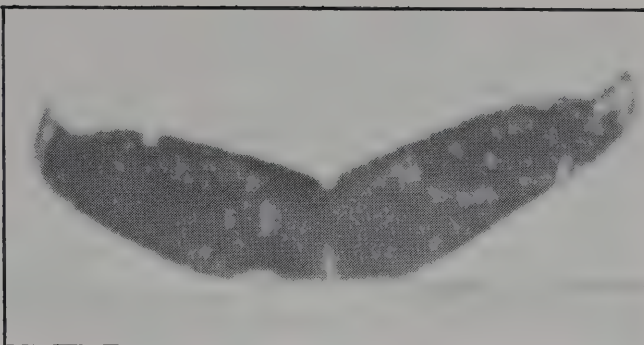




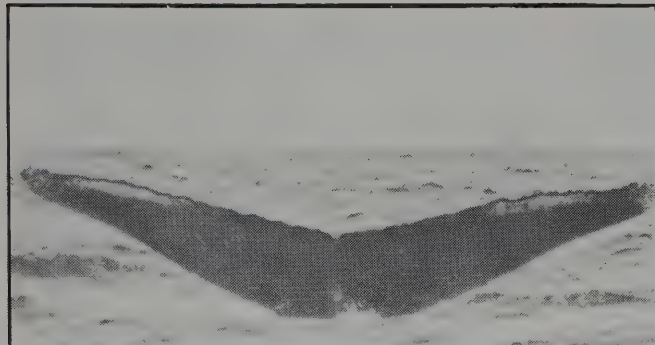
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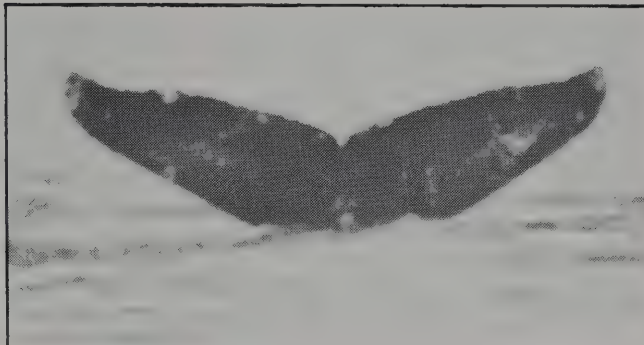
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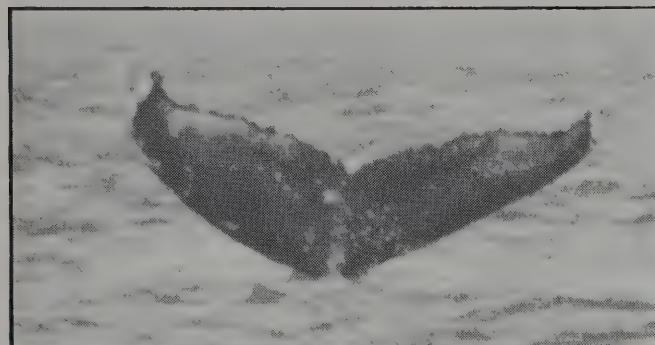
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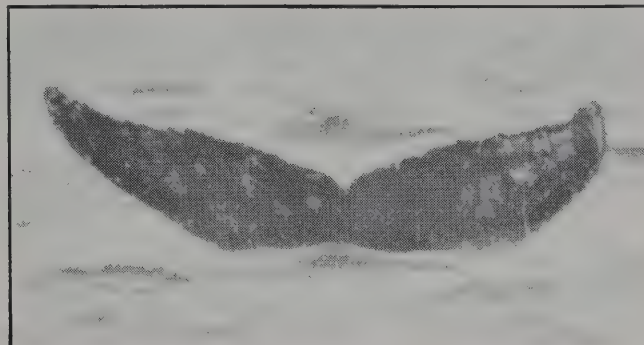
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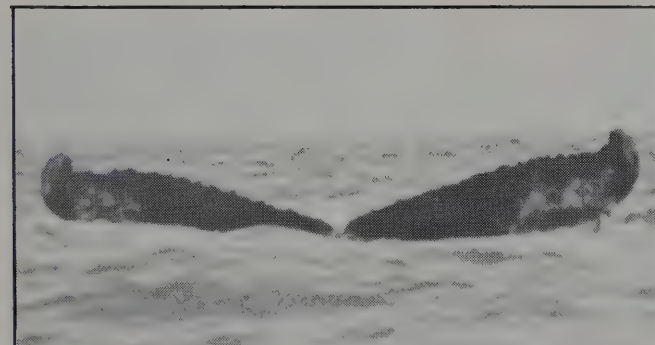
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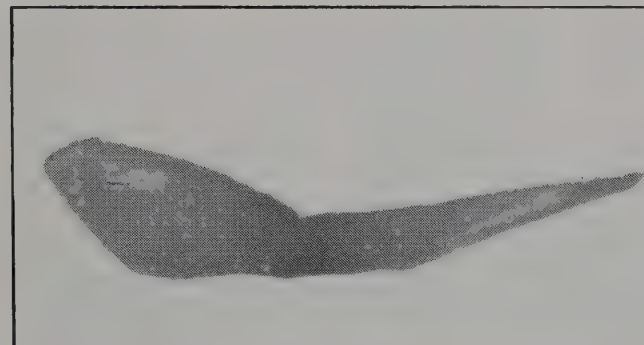
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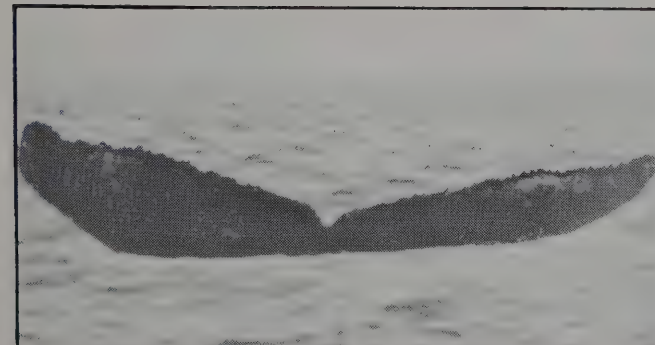
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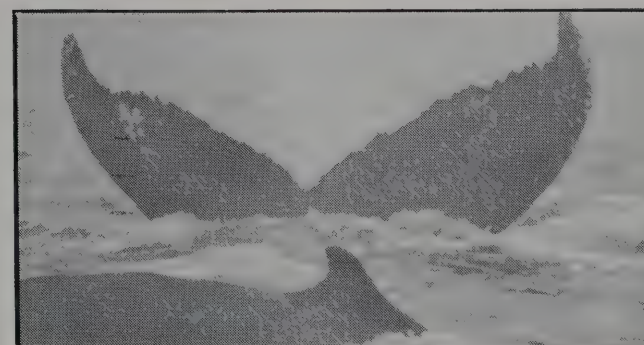
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1309



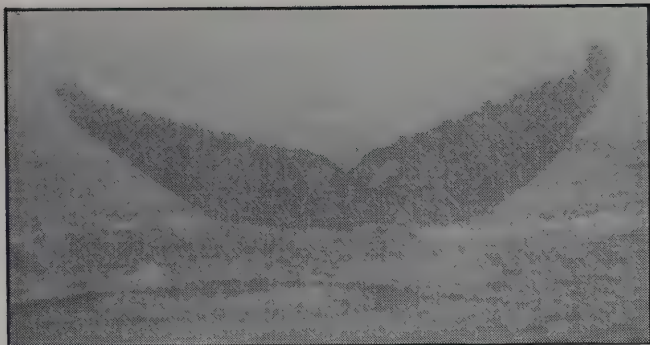
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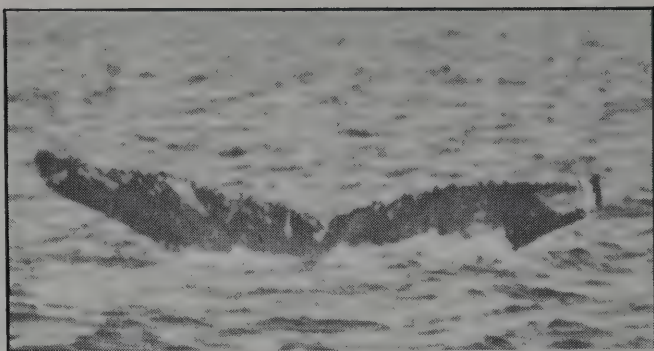
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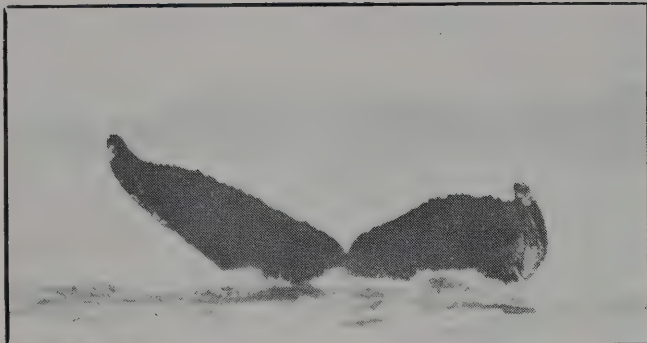
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1164



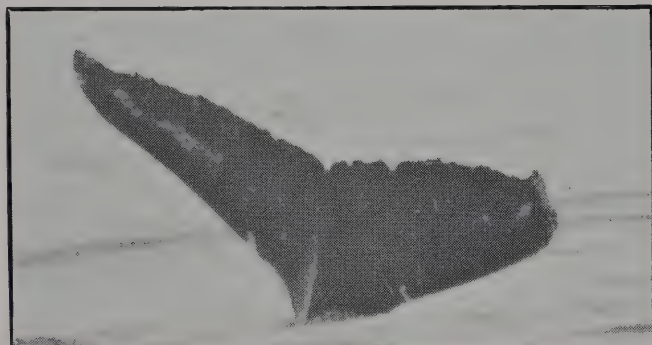
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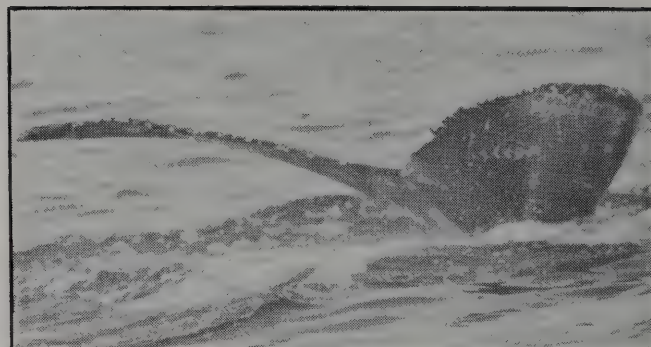
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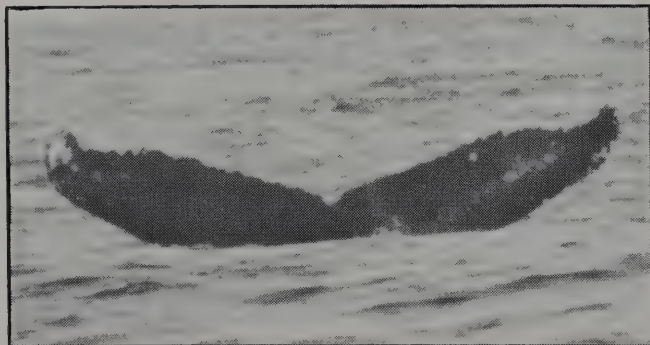
1005



1022



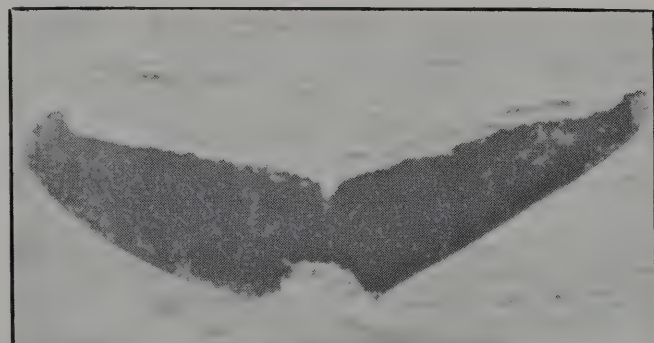
1121



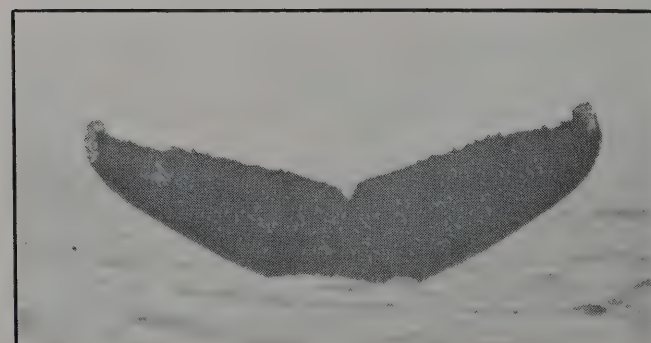
1101



1219

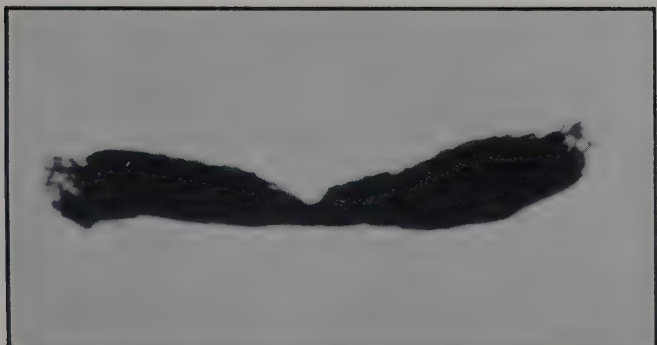


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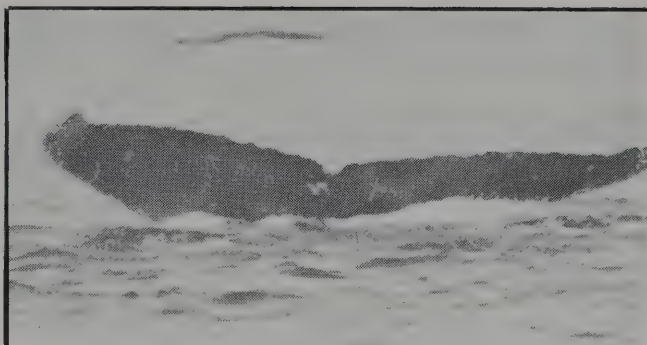




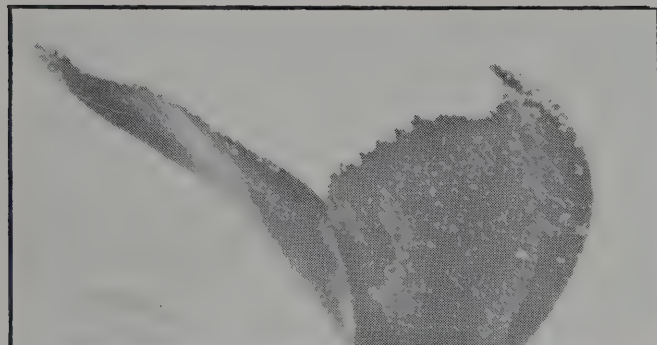
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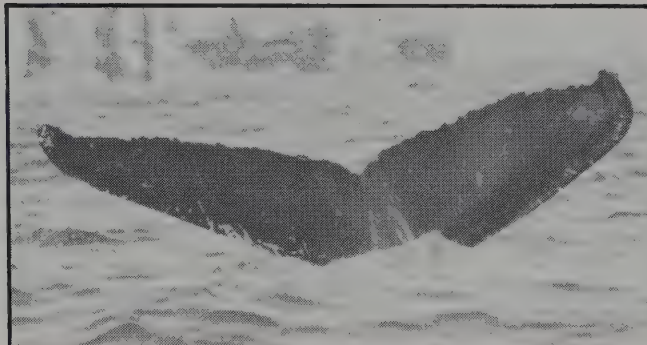
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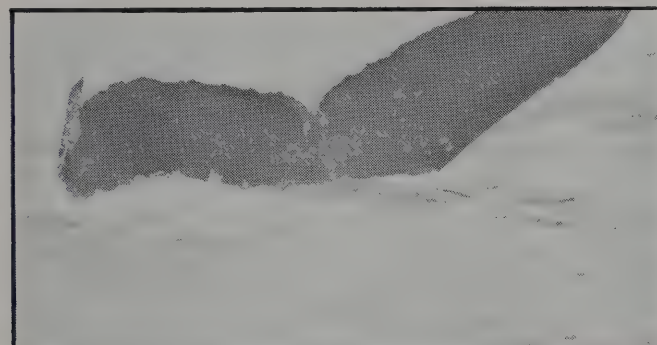
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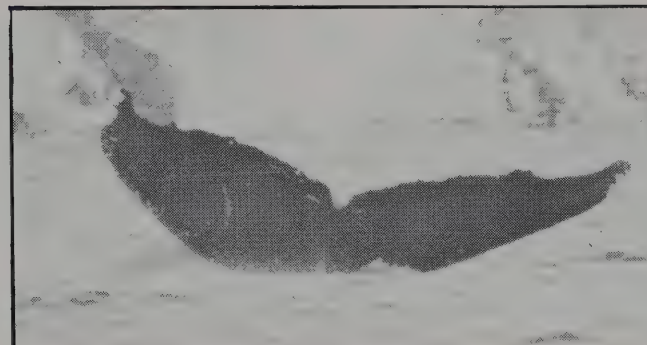
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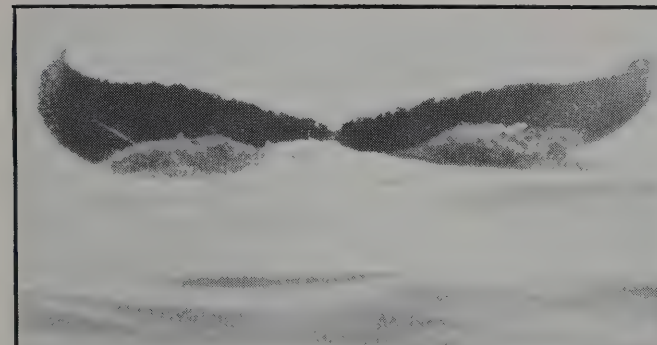
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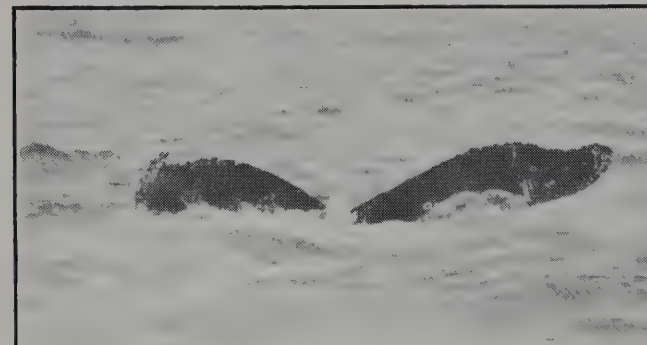
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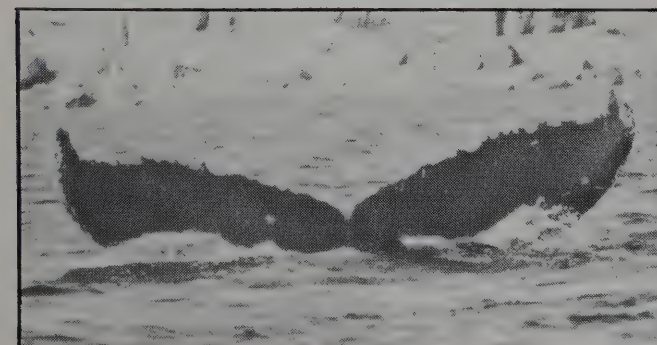
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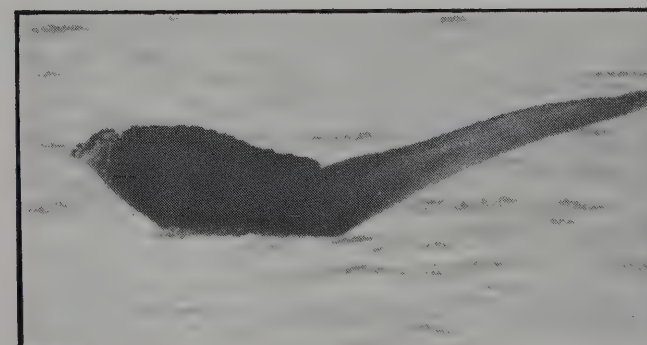
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1045



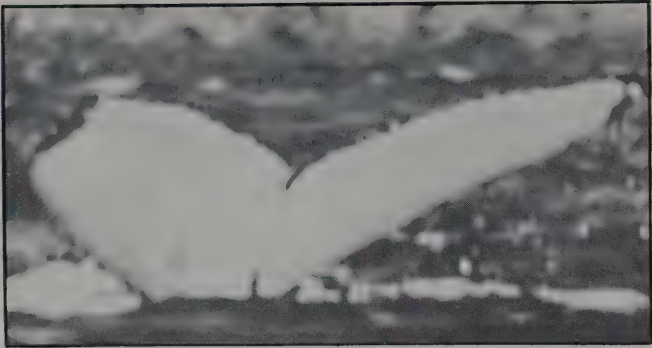
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NEWFOUNDLAND 1978



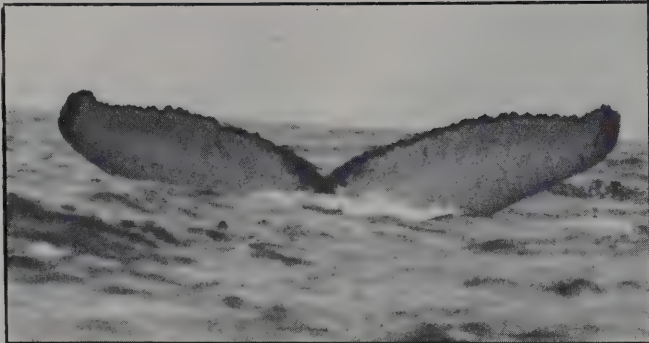
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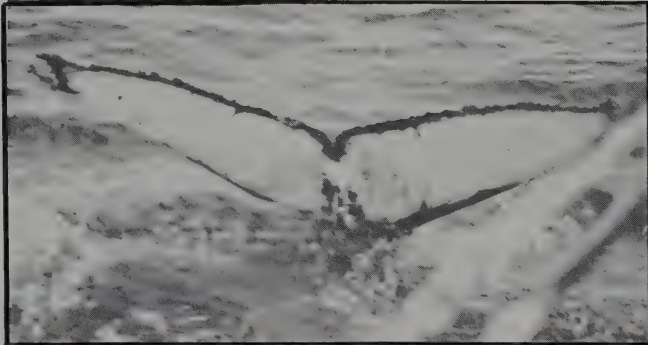
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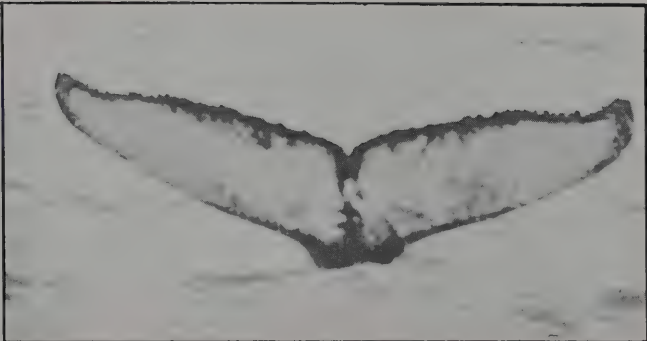
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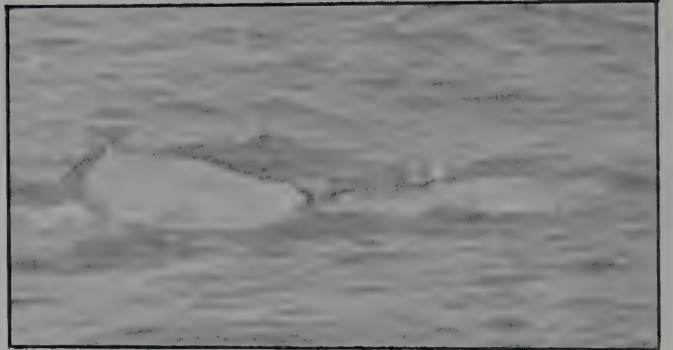
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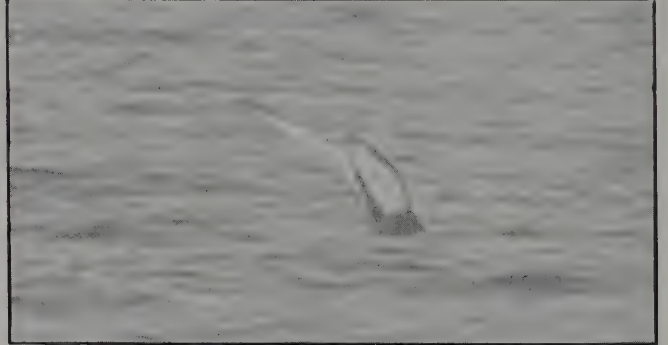
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1266A



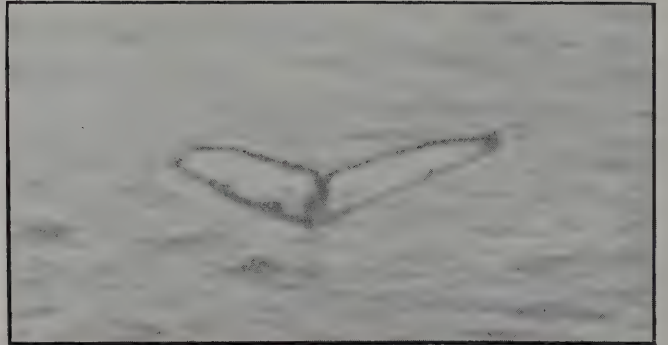
1266B



1267



1268

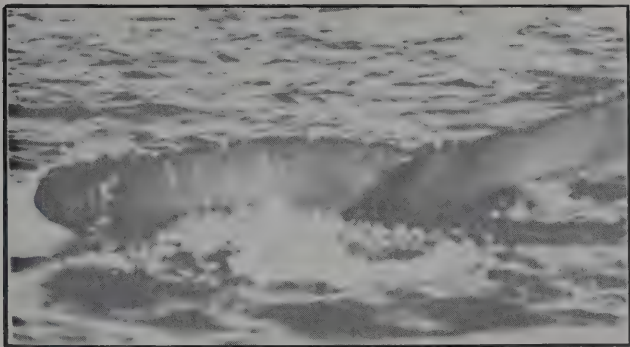


0014

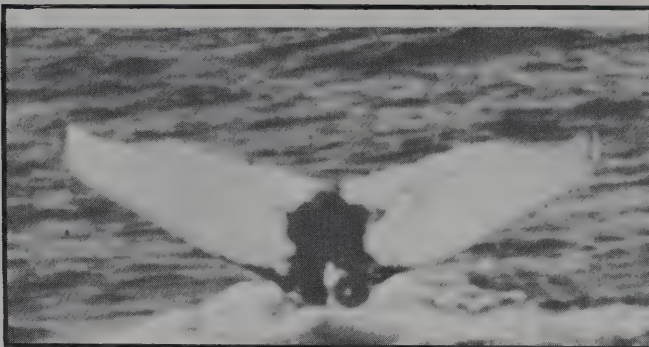




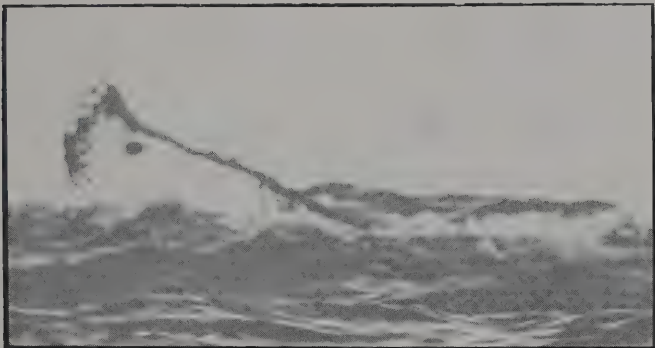
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0021



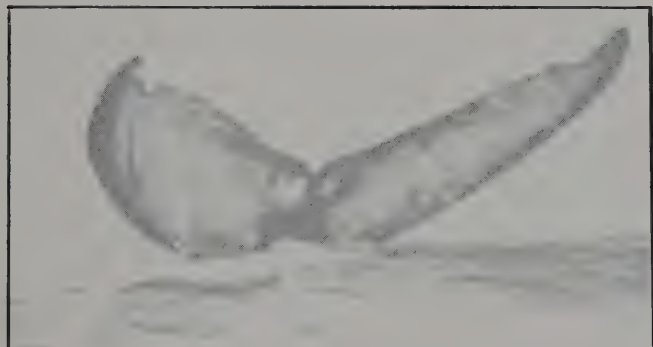
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0023



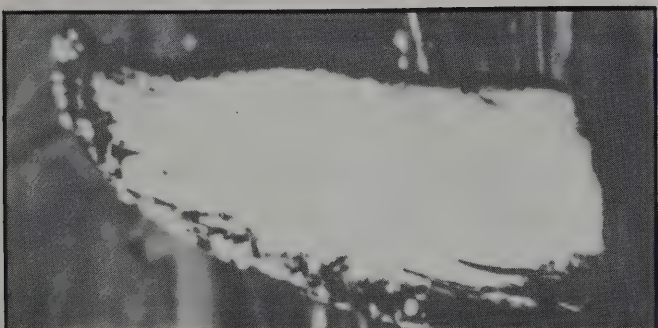
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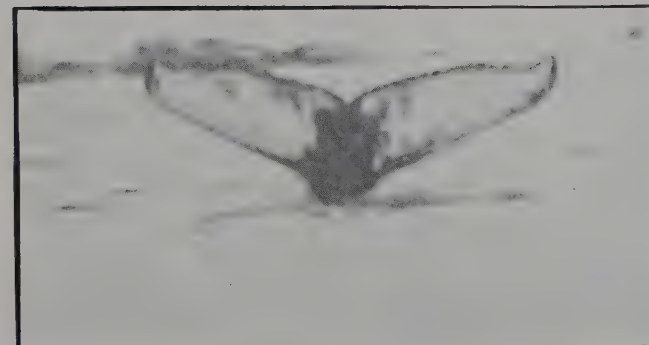
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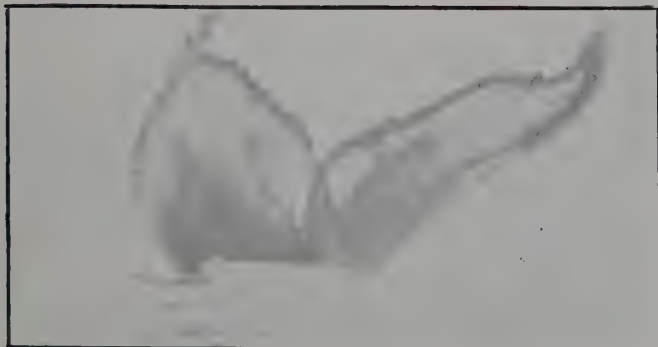
0109



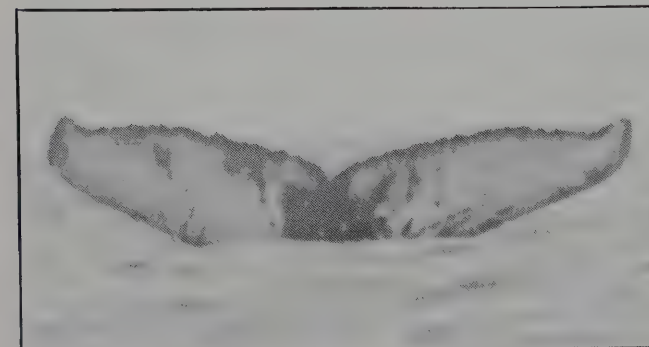
0025A



0015



0025B

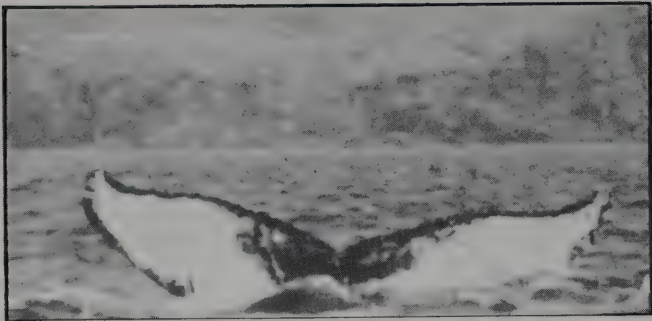


NEWFOUNDLAND PRE 78

111



0030



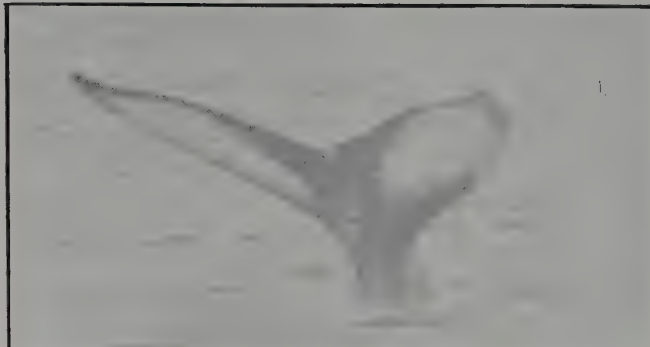
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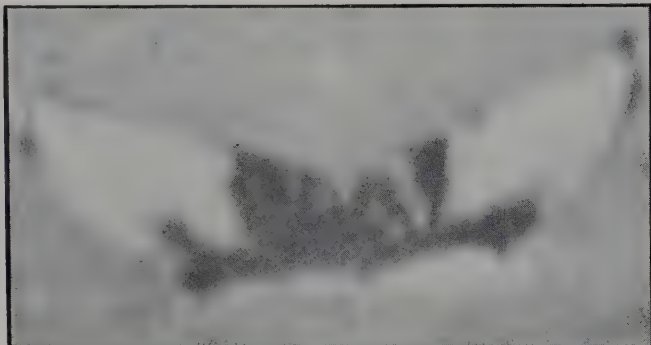
0031



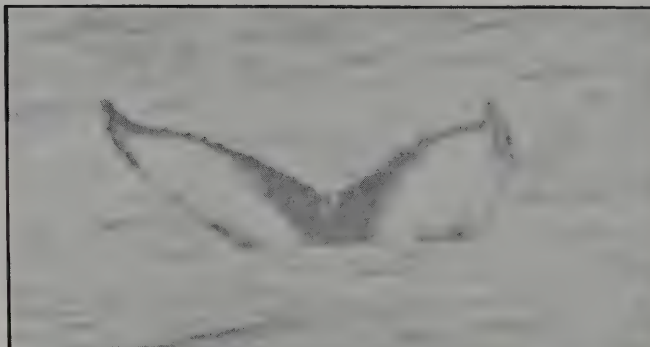
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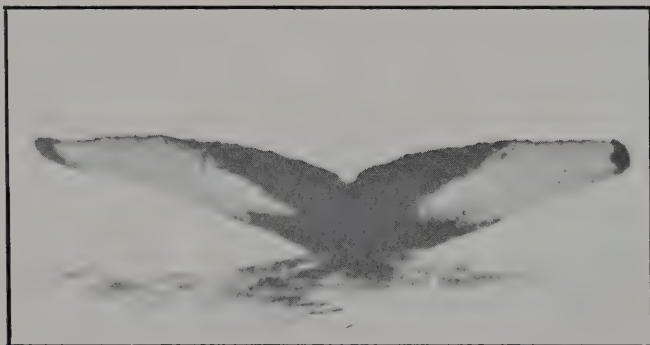
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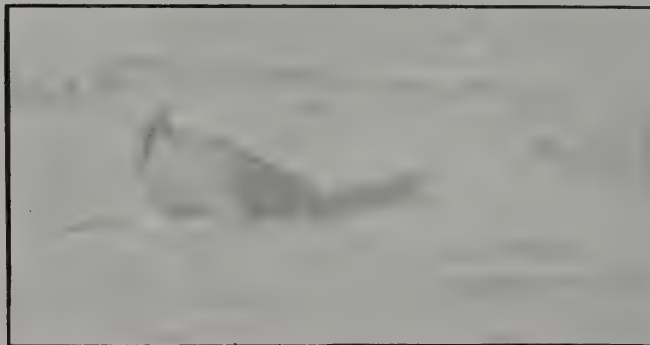
1254B



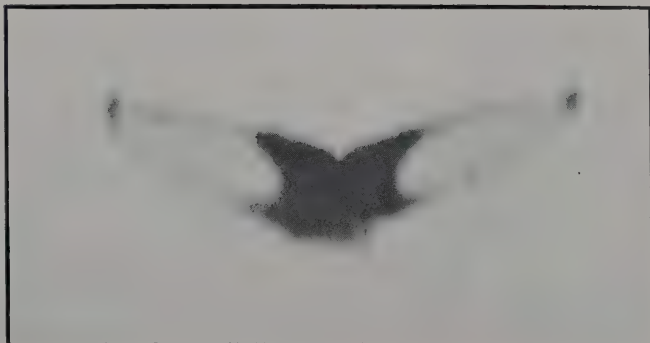
0065



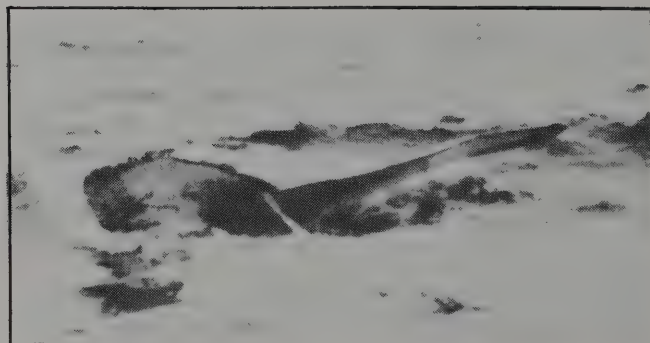
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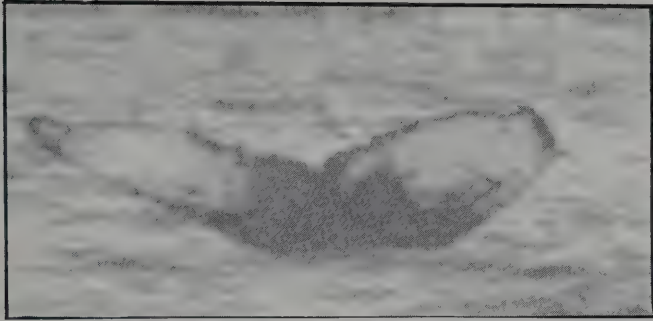
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1253



0042



1255



1257A



1258



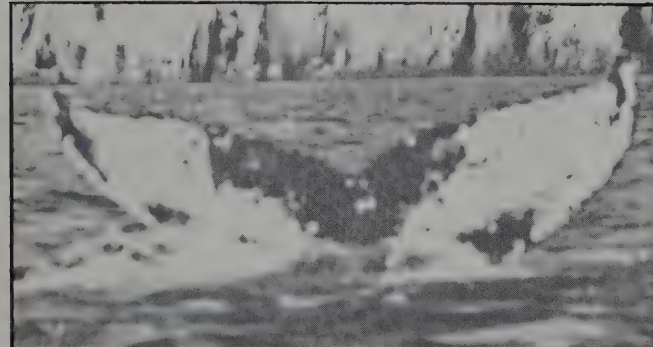
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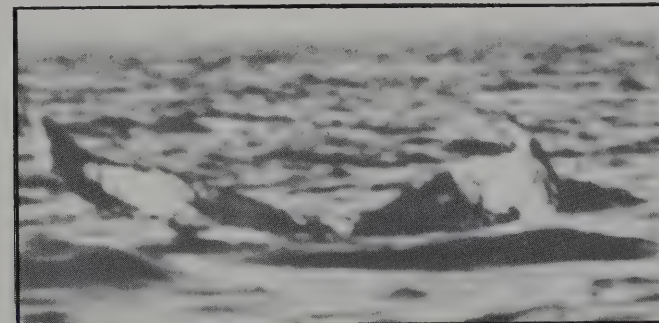
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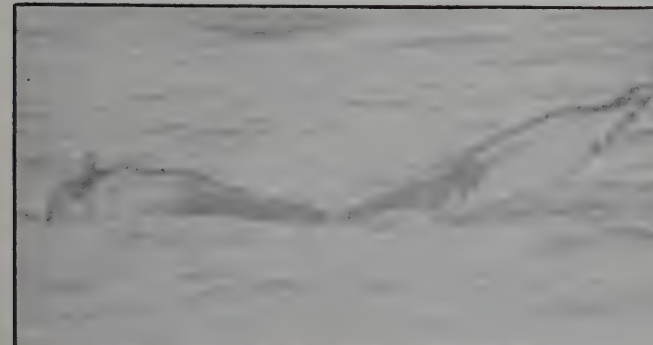
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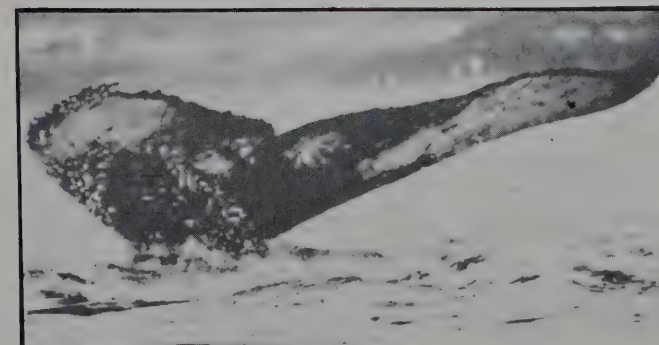
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1256



1271



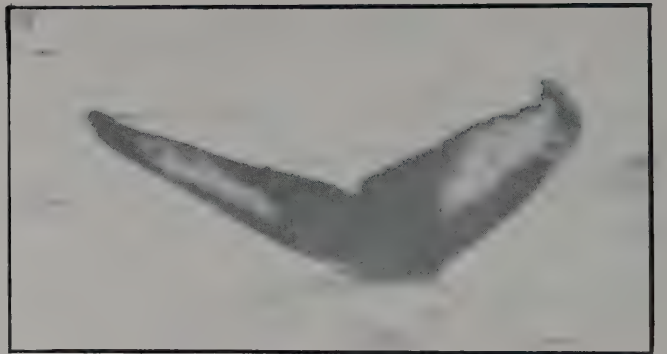
NEWFOUNDLAND PRE 78



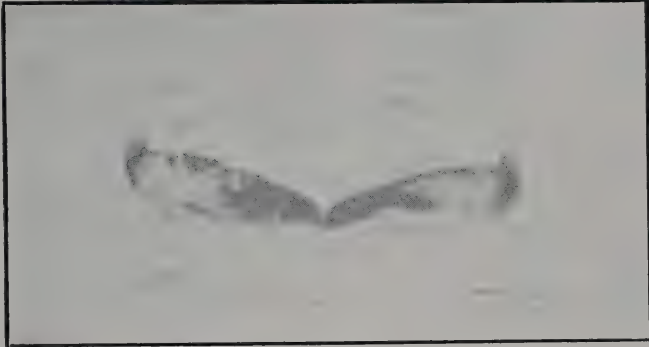
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1250



1259



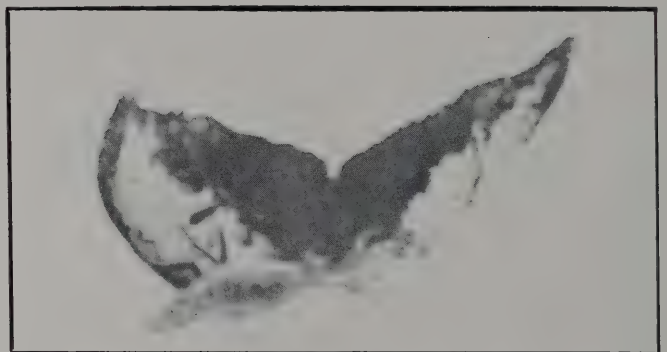
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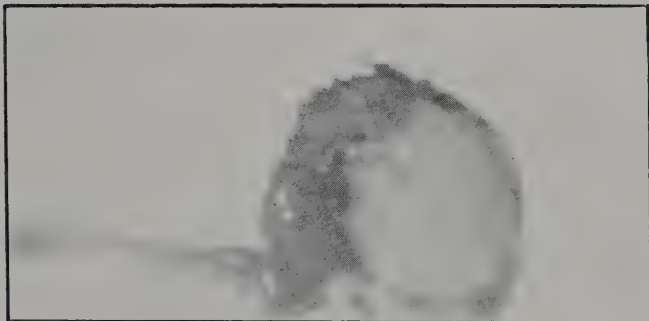
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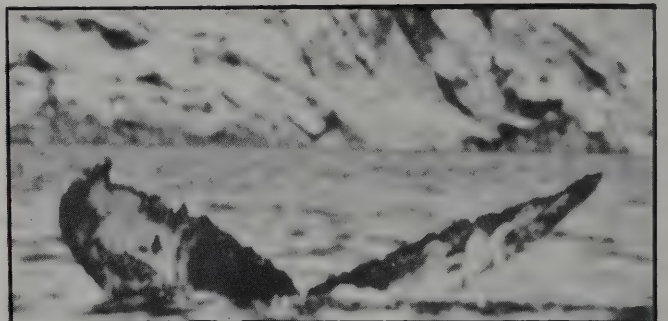
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0028



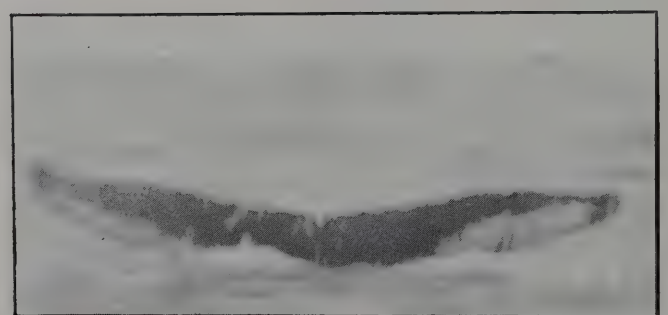
0115



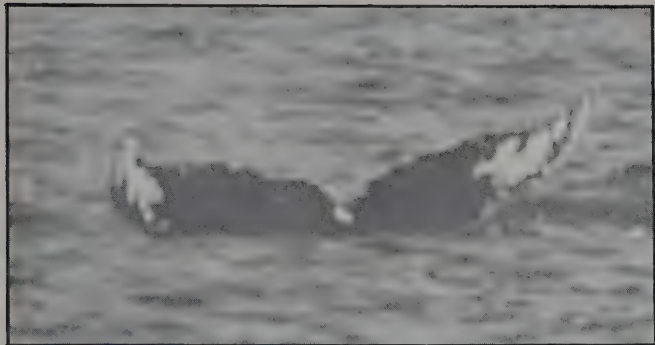
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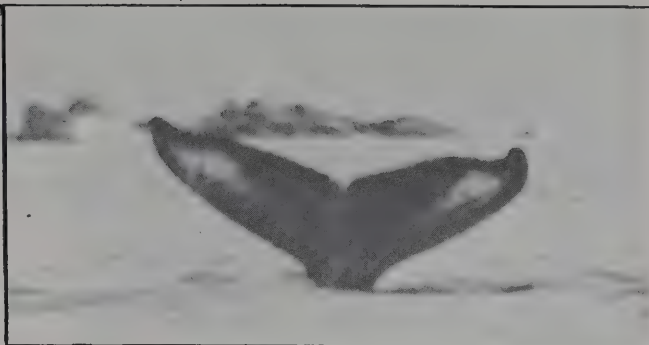
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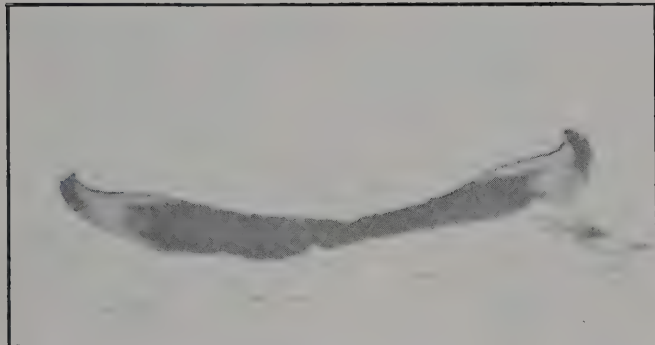
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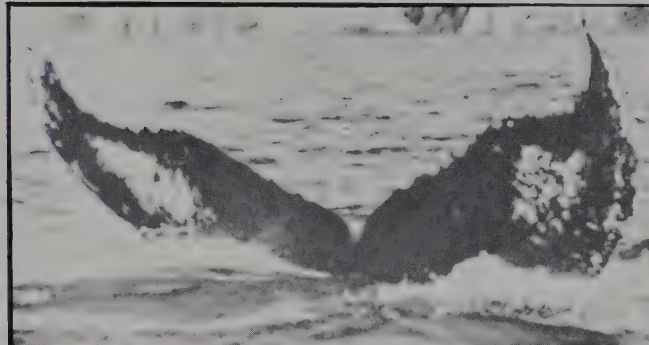
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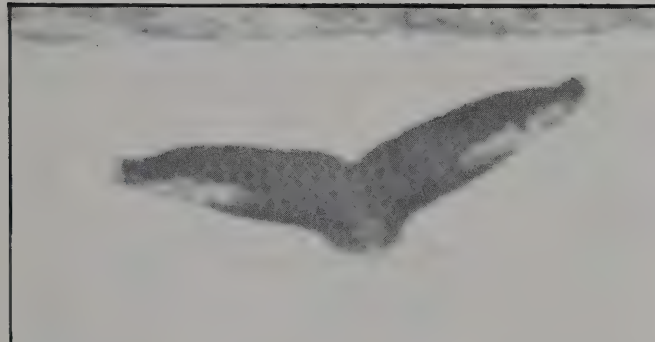
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0090



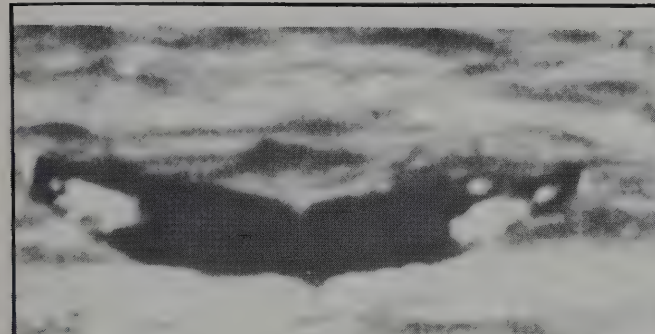
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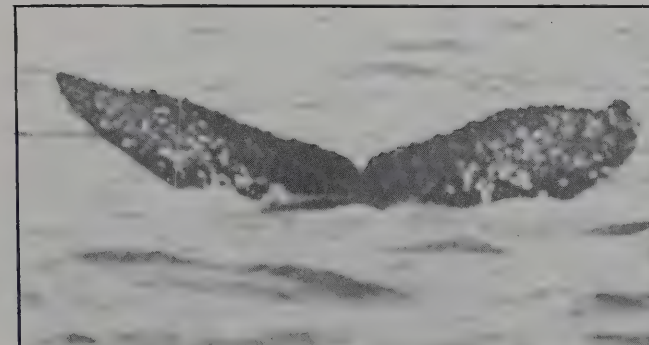
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0088



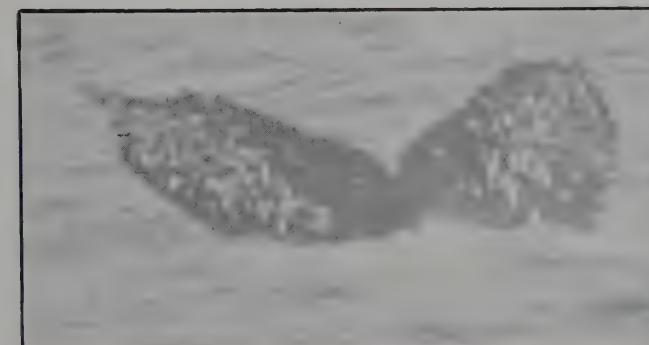
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1265



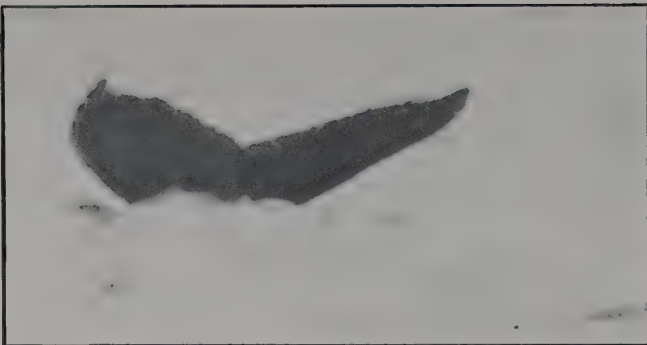
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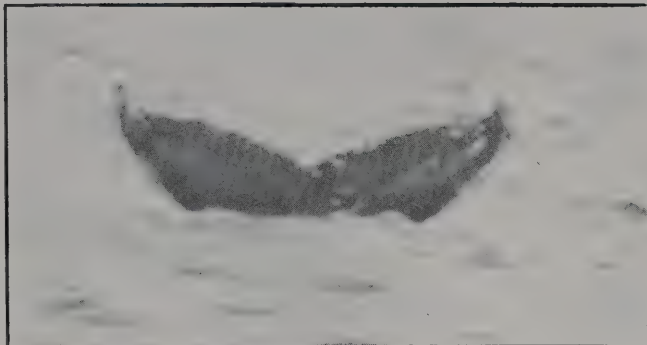
NEWFOUNDLAND PRE 78



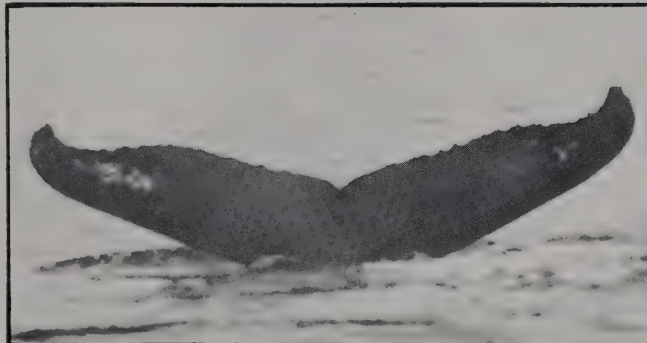
0097A



0097B



0106



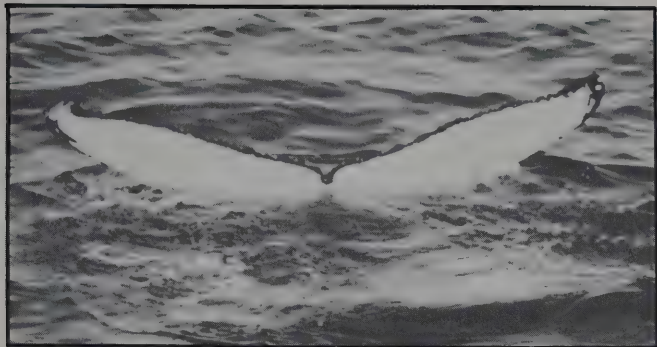
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0105



0001



0155



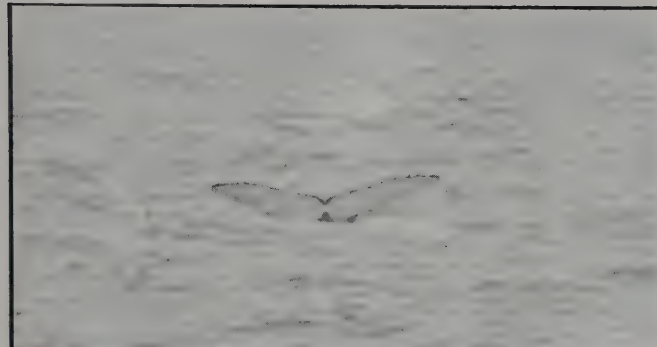
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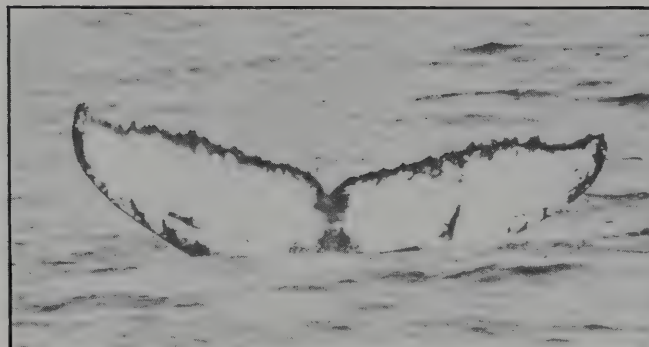
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0145A



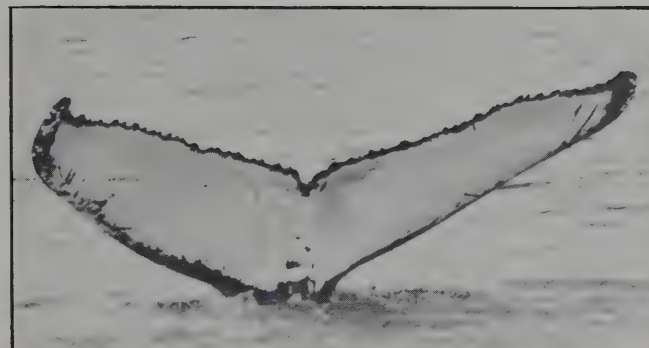
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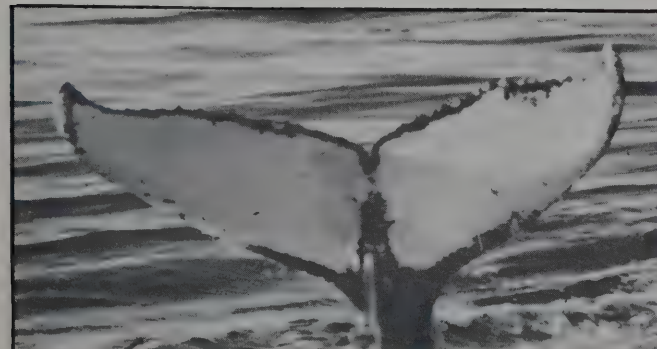
0145B



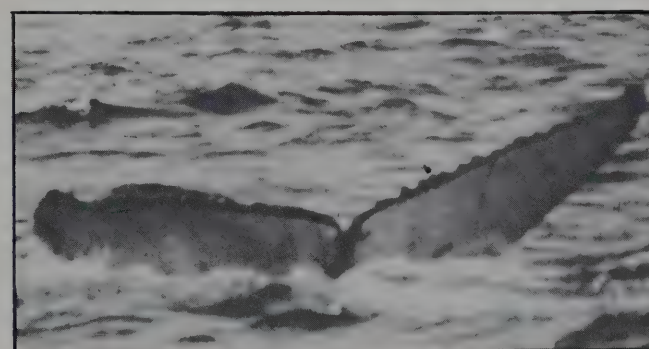
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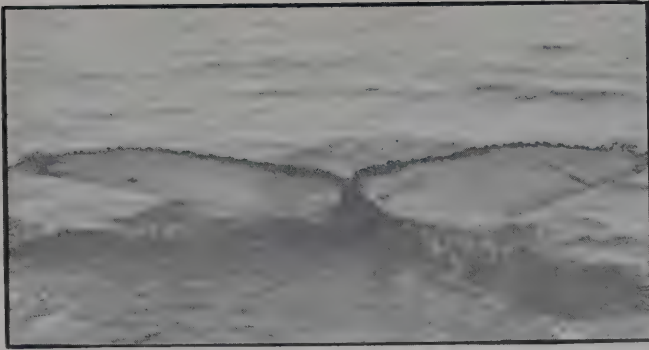


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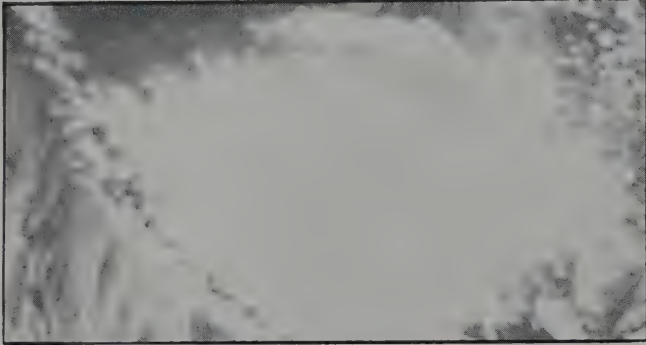




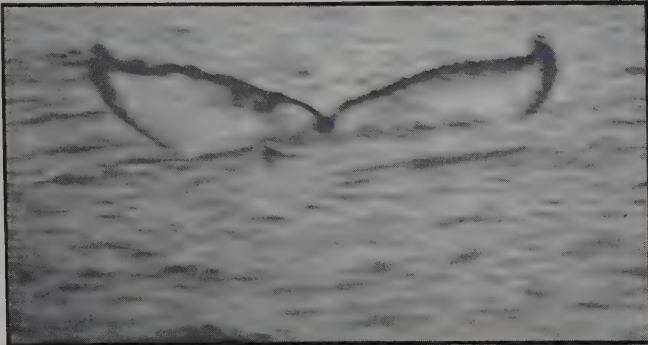
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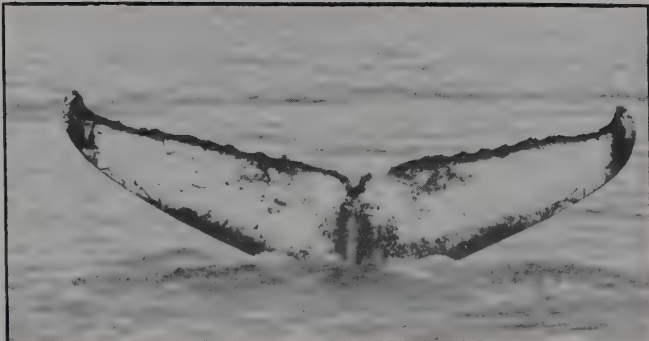
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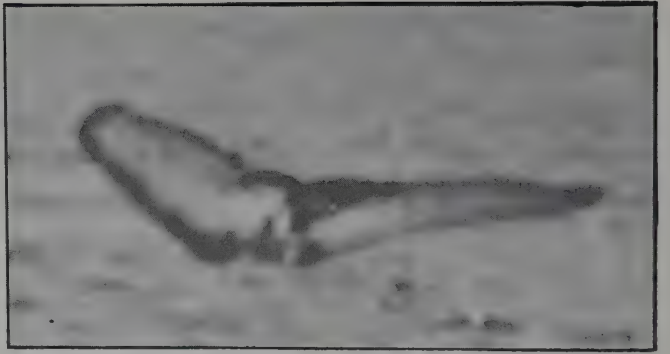
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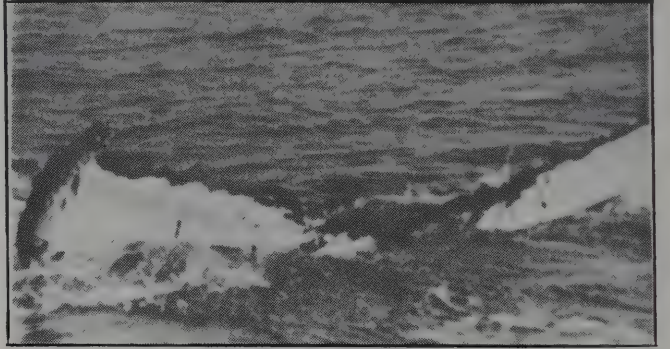
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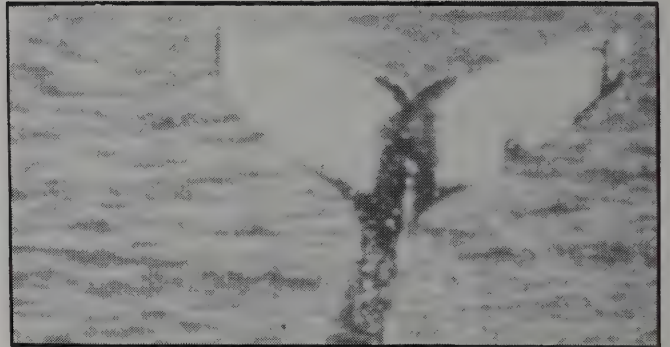
0202A



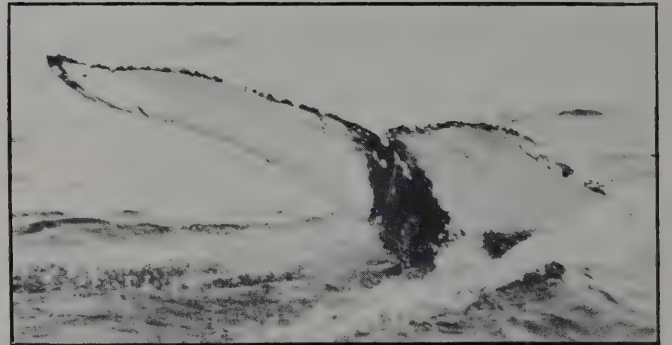
0202B



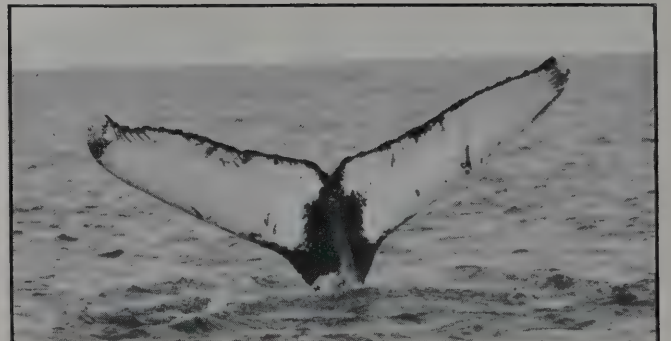
0142



0162



0016





O183A



O125



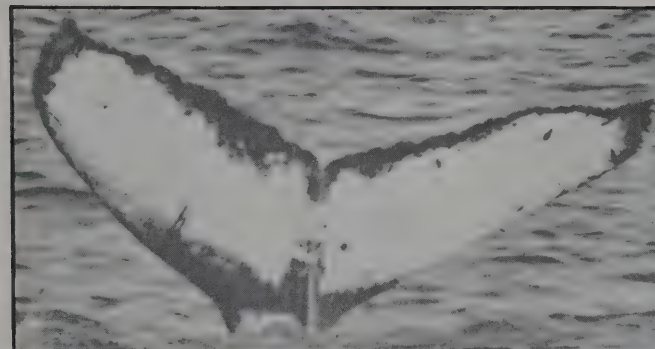
O183B



O184



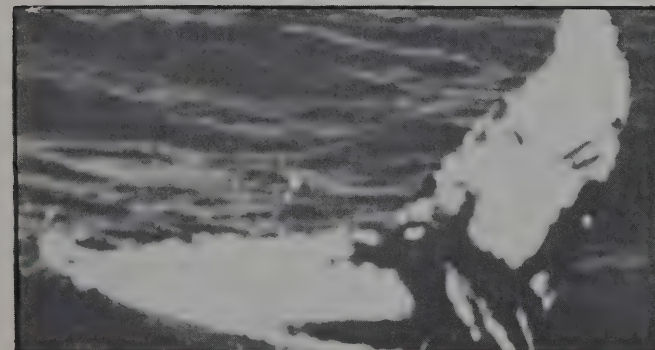
O012



O129



O164A



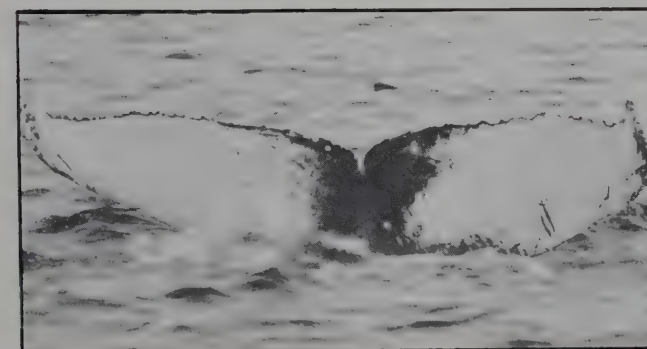
O149



O164B

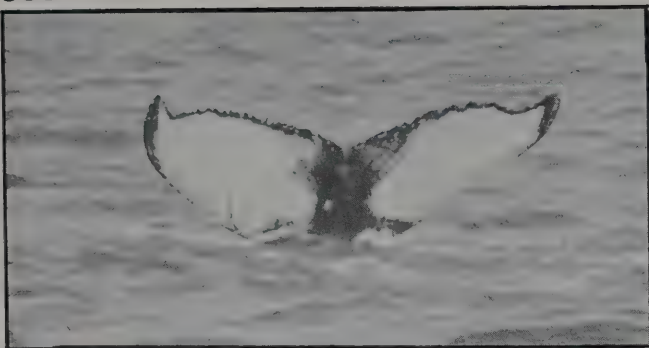


O024





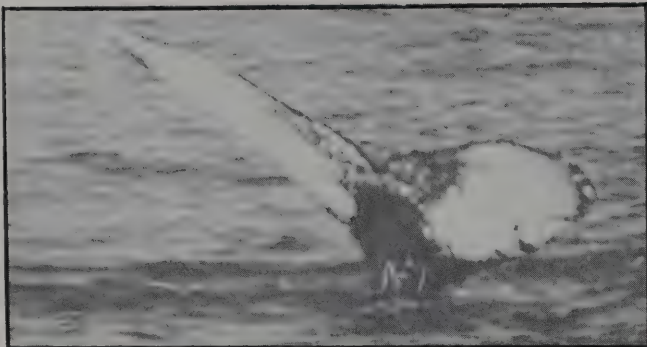
0036



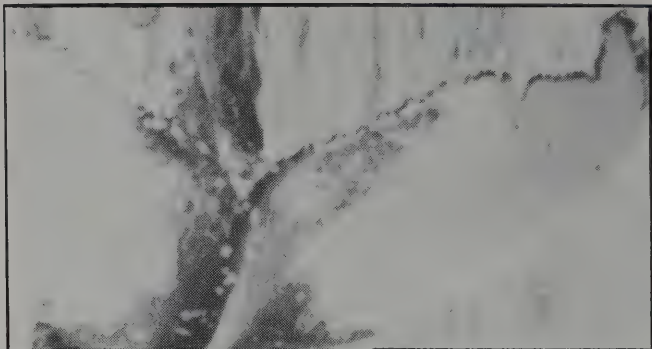
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0131



0146



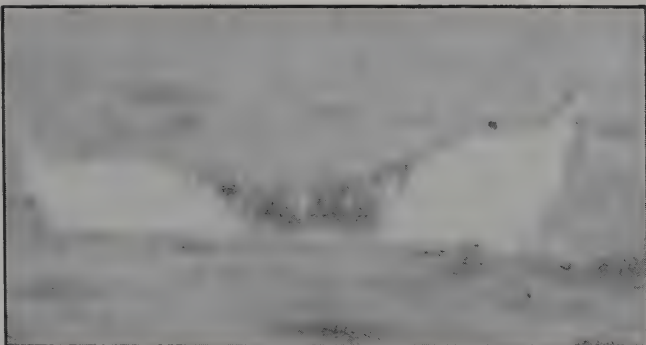
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0133



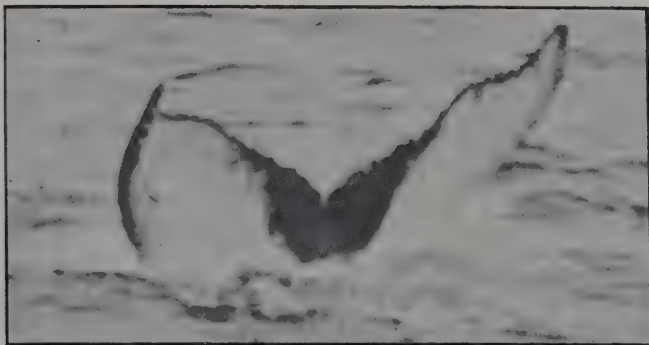
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0140



0195

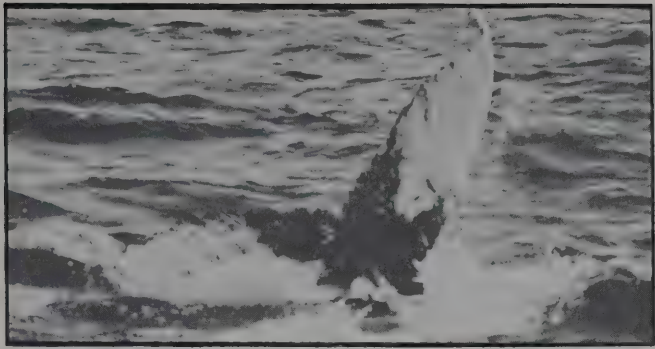


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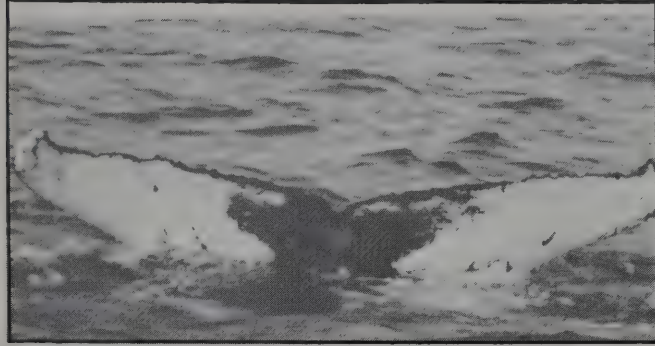
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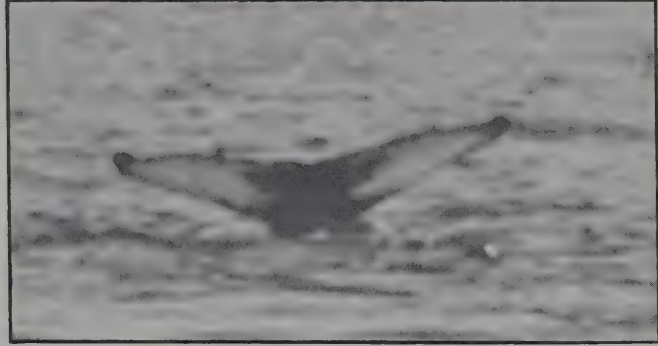
0034



0035



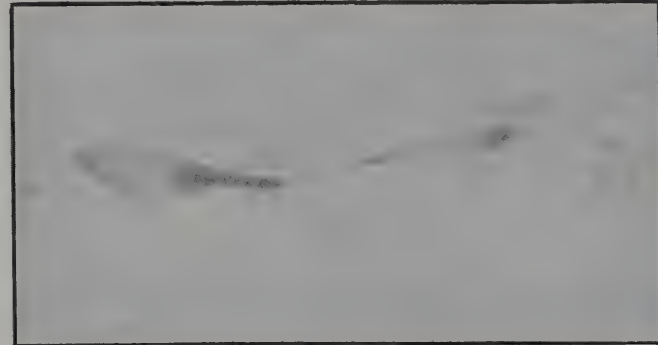
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0043



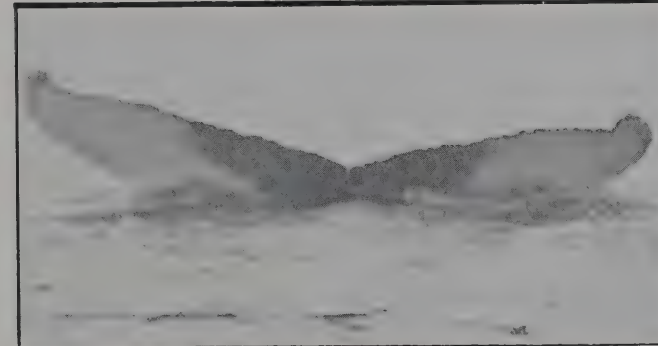
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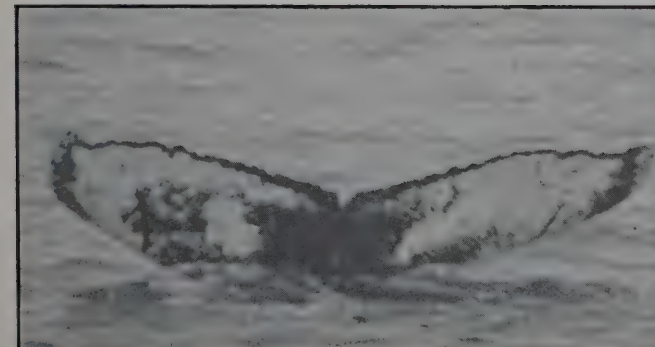
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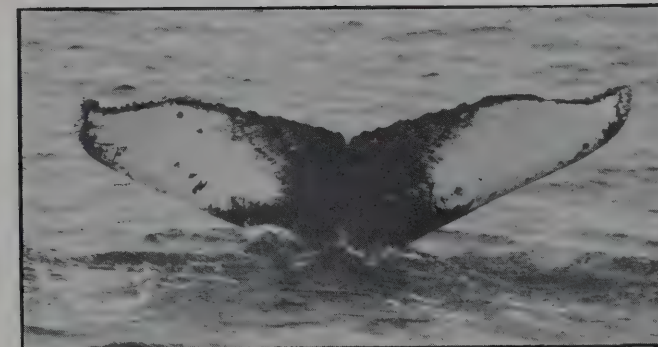
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0050



0047

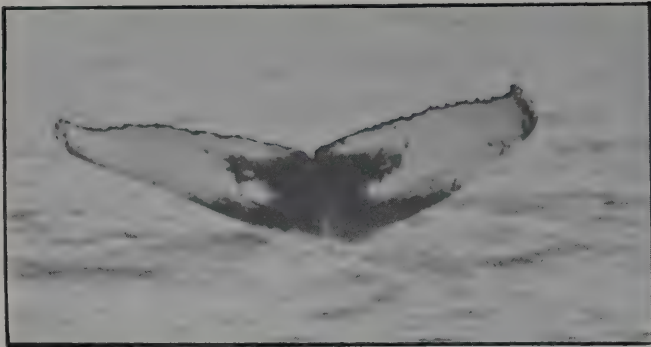


# GULF OF MAINE

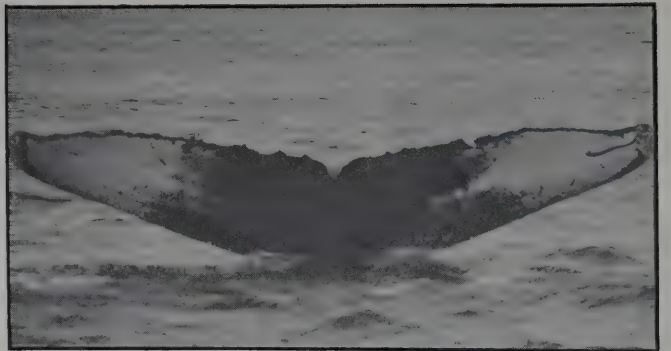


# GULF OF MAINE

0144



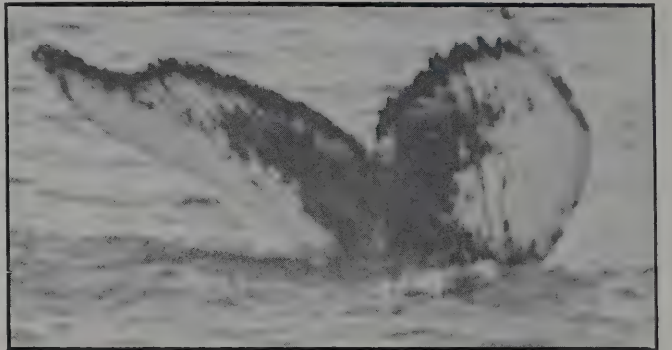
0063



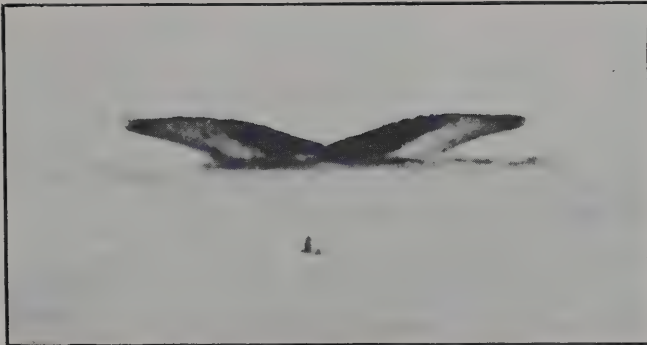
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0054



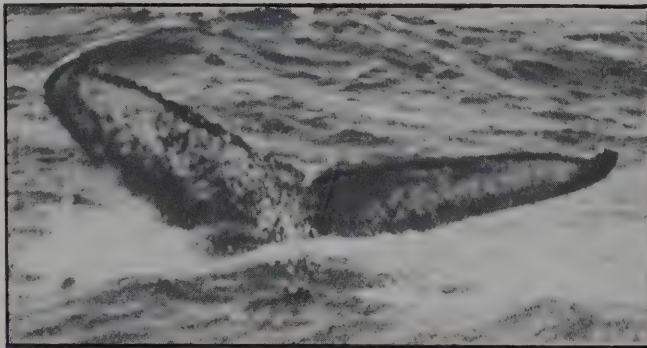
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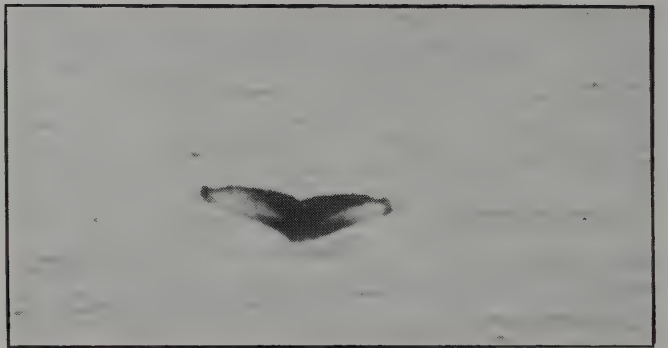
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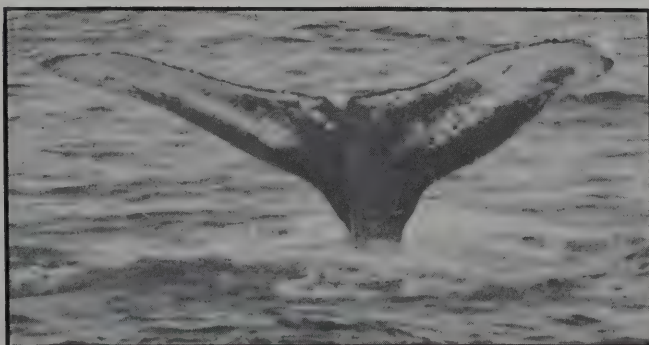
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0139



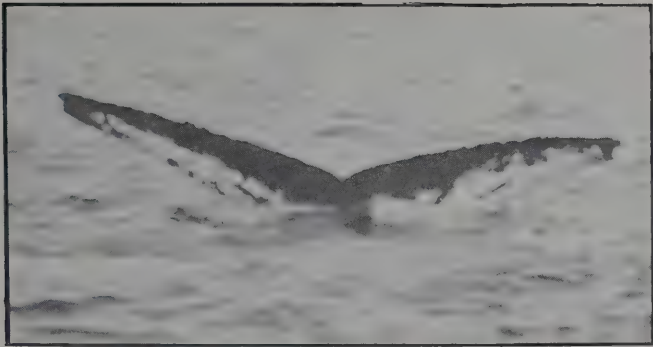
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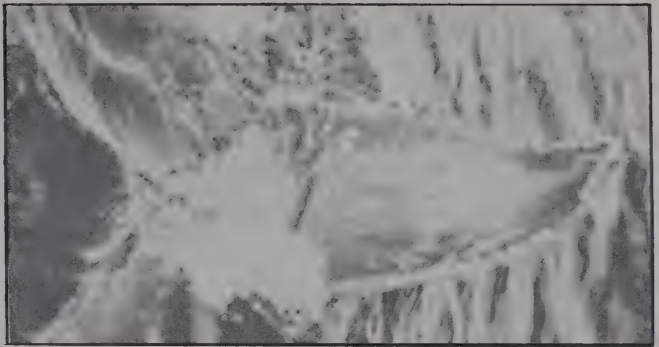
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O196



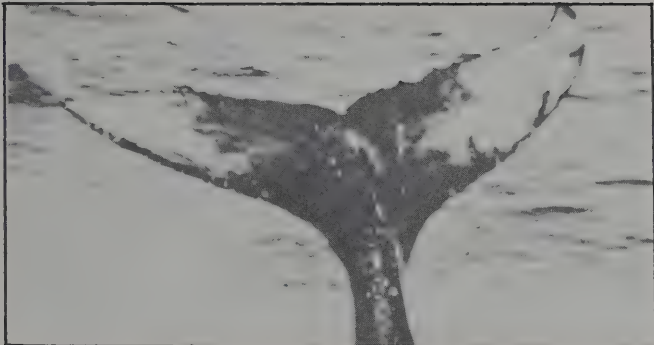
O147



O173



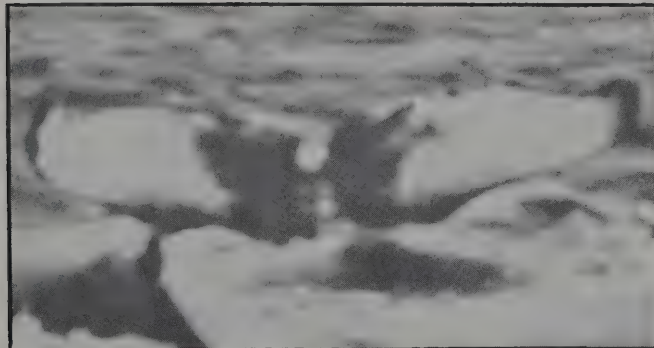
O158



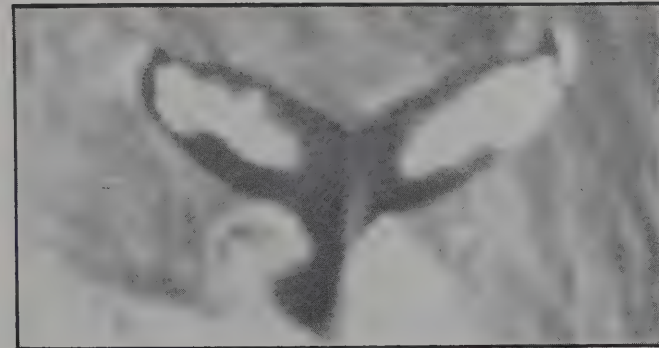
0069



O190



O186



O187



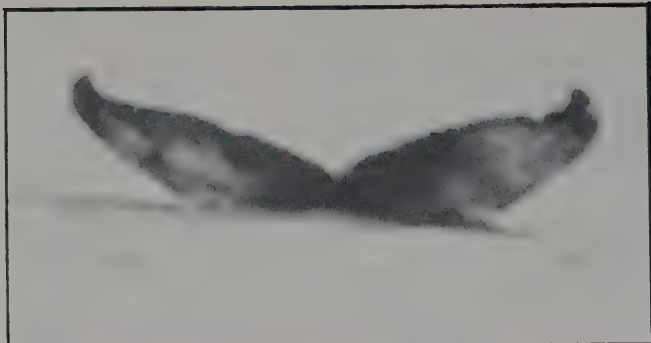
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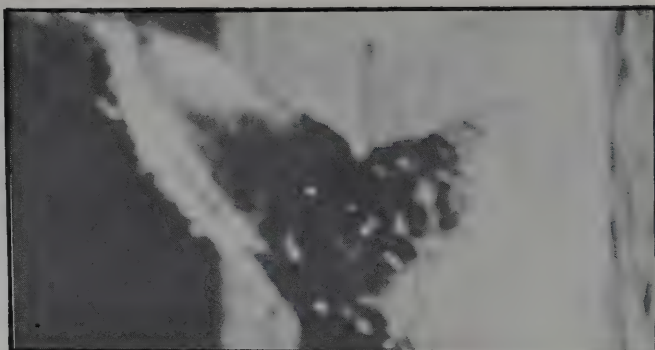
# GULF OF MAINE



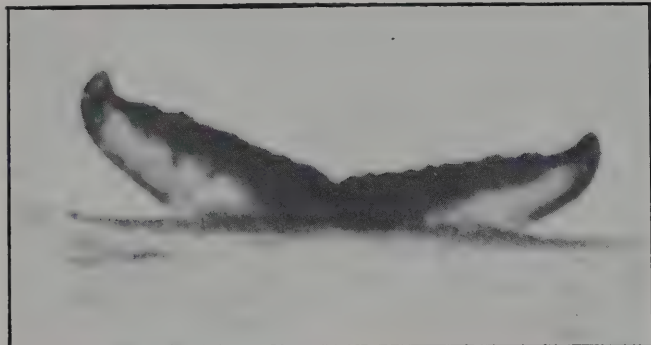
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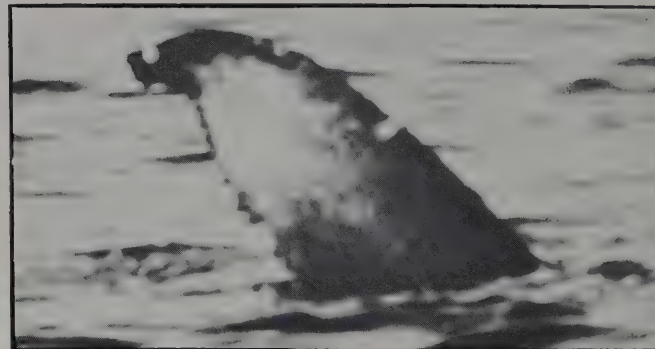
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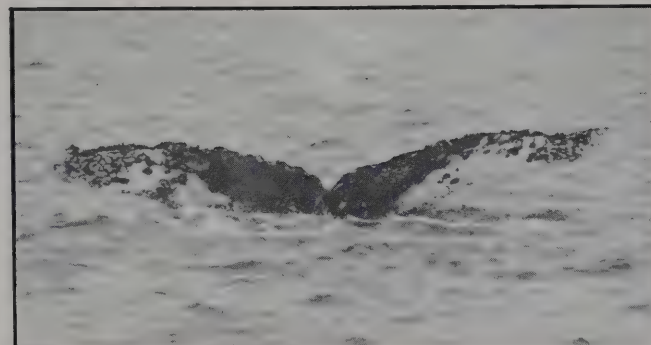
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0180B



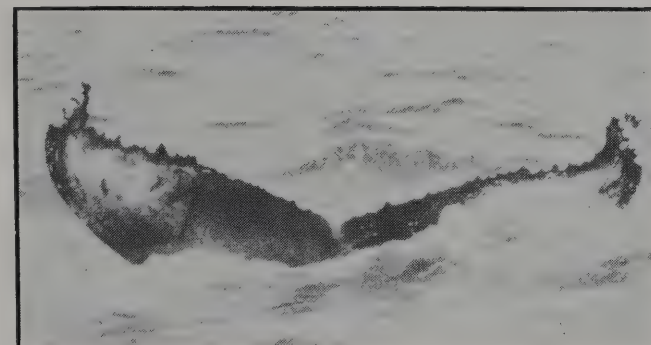
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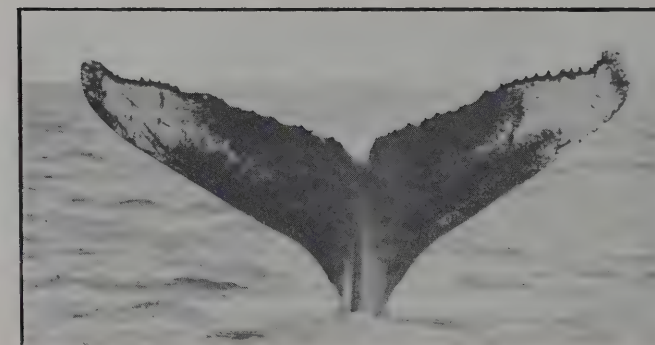
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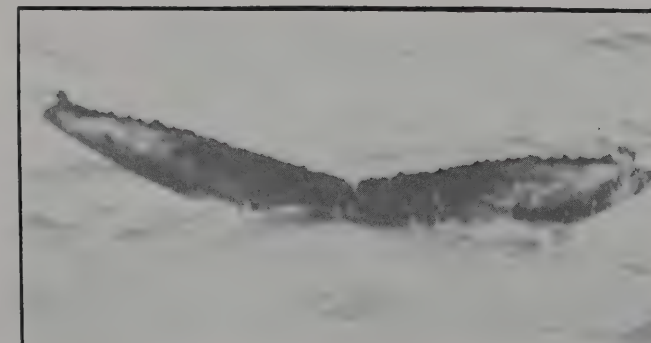
0141A



0072



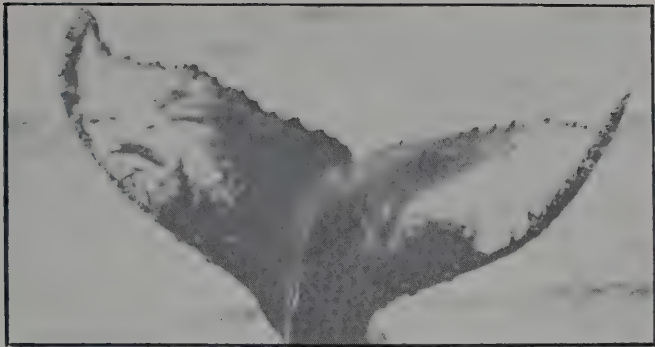
0141B



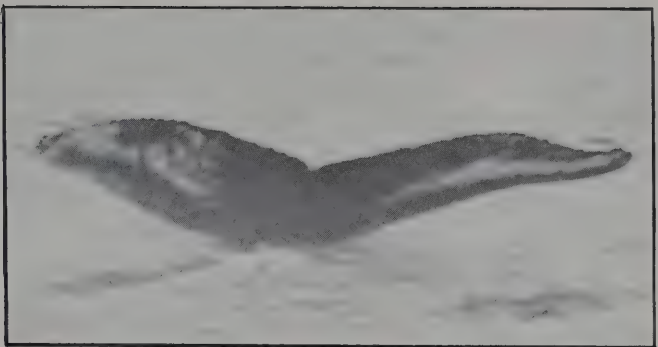
0191



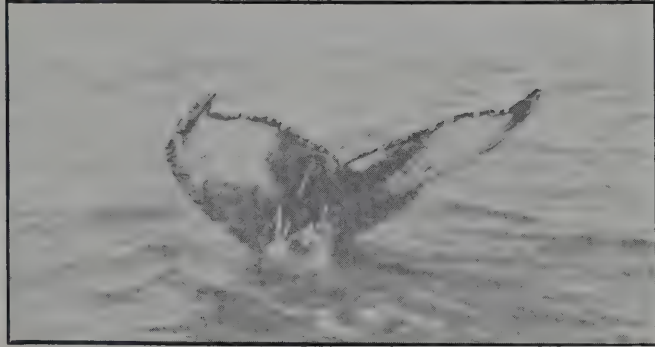
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0189



0185



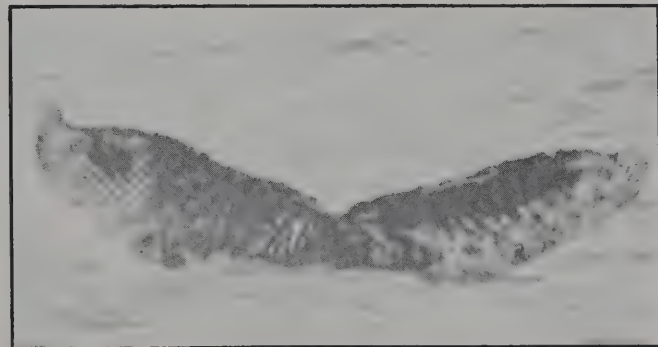
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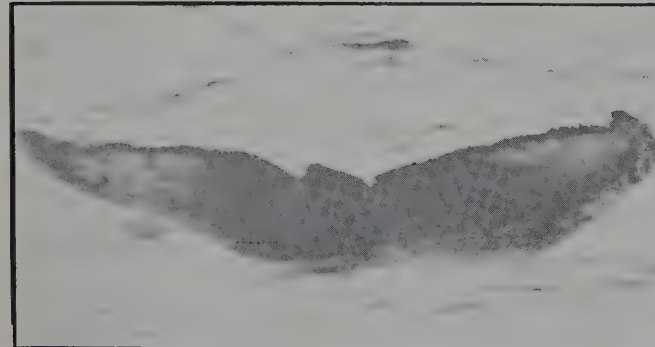
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0093



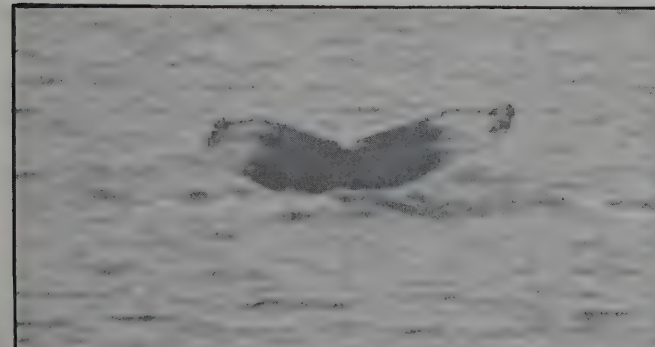
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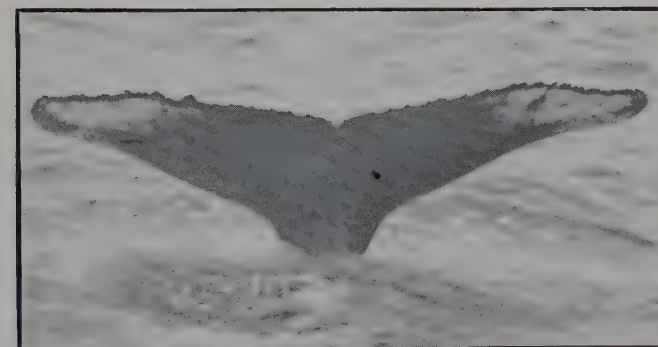
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0188



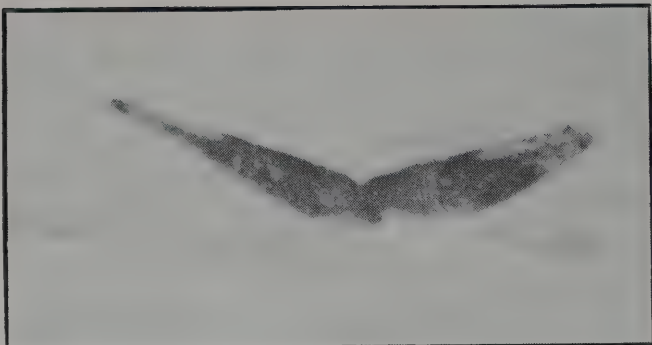
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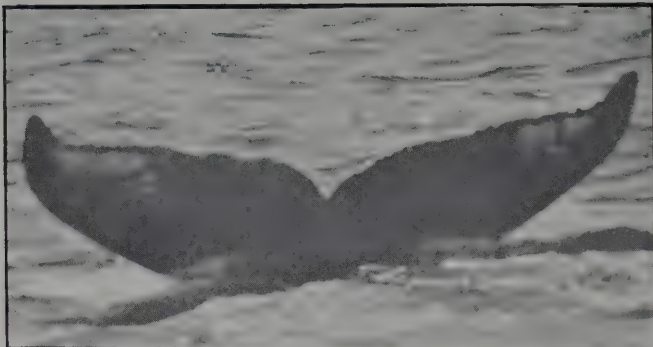
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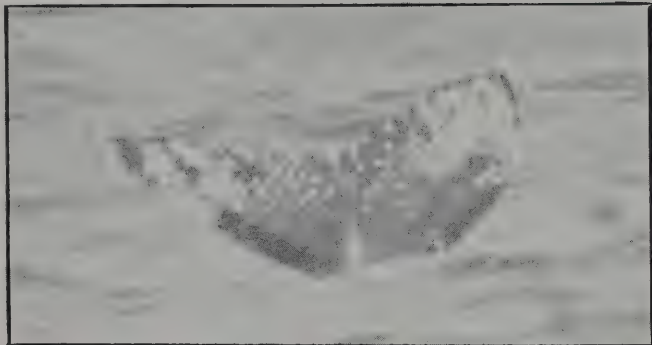
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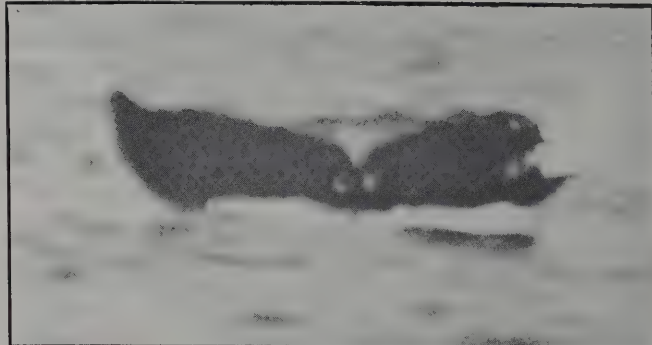
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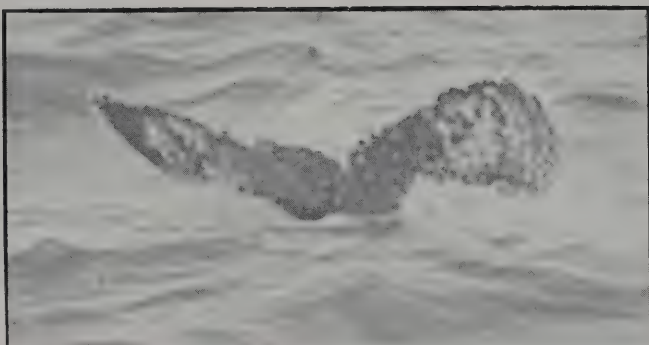
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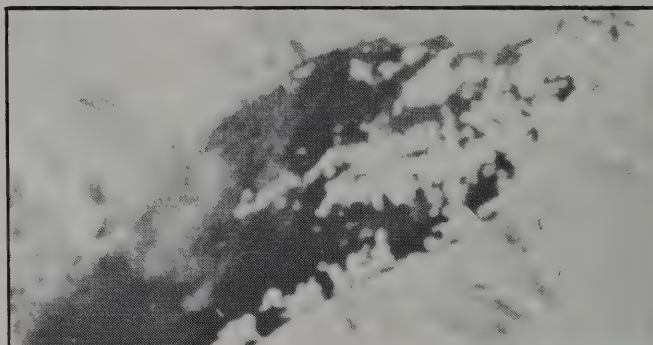
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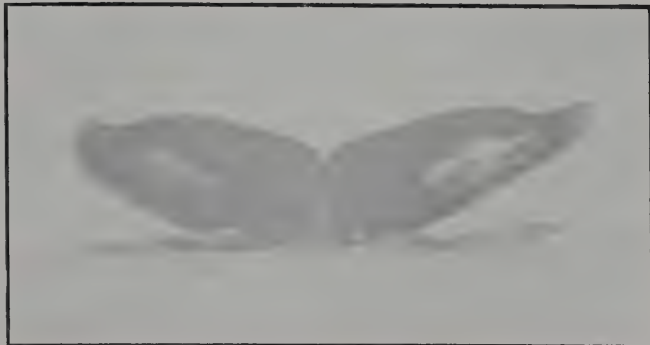
0091B



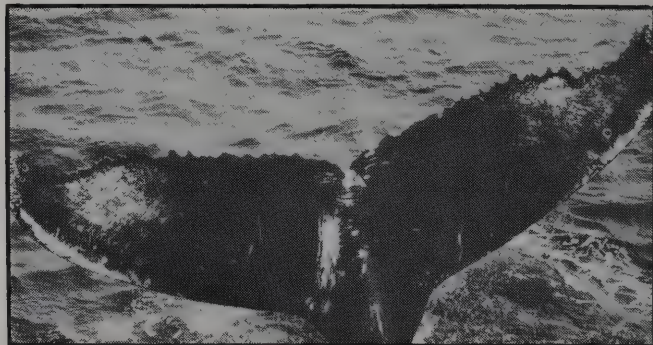
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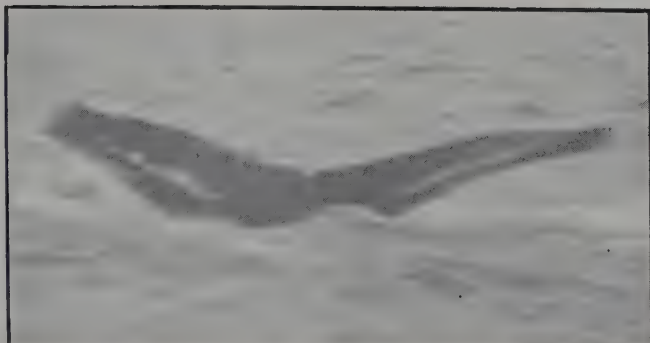
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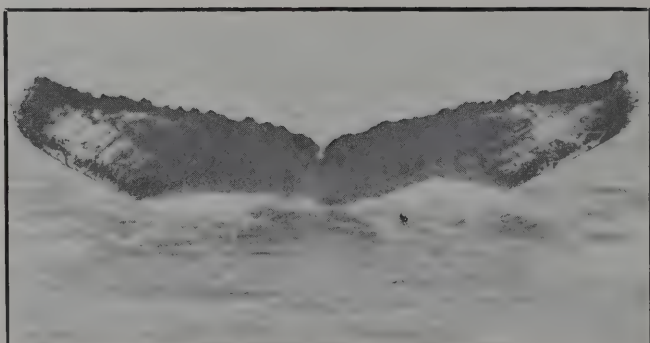
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0198

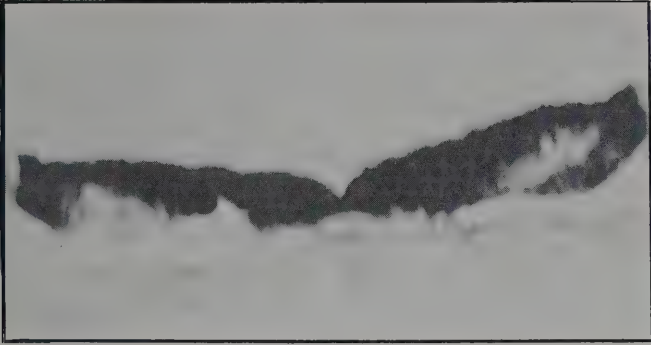


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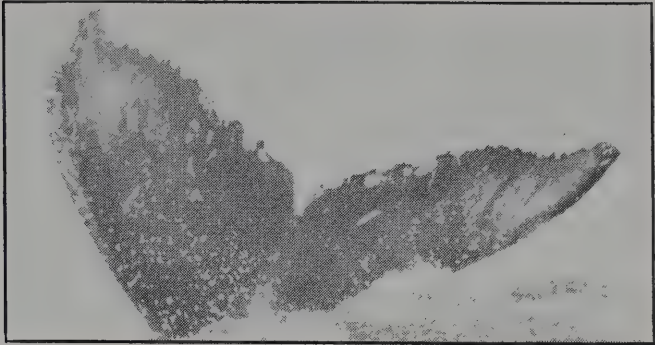




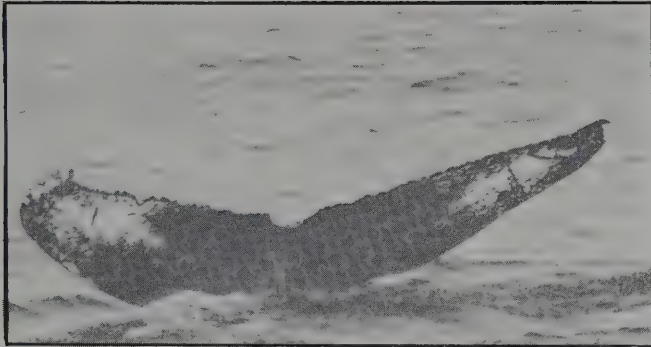
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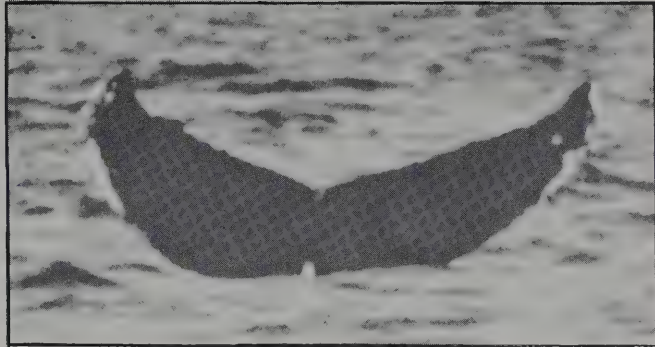
O148



O085



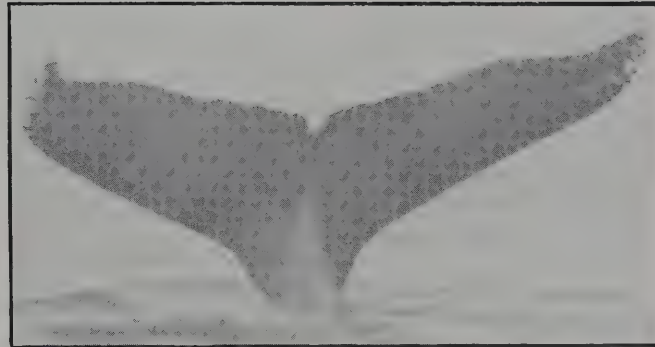
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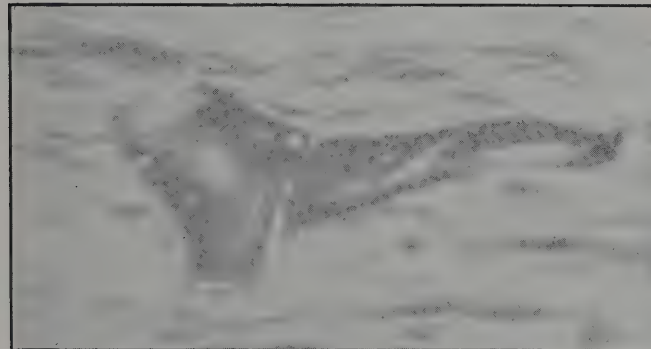
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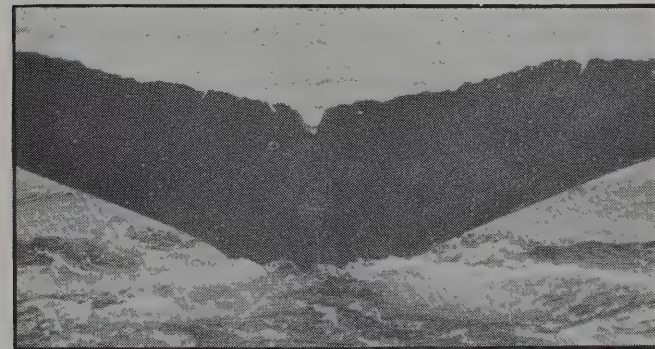
O101A



O178A



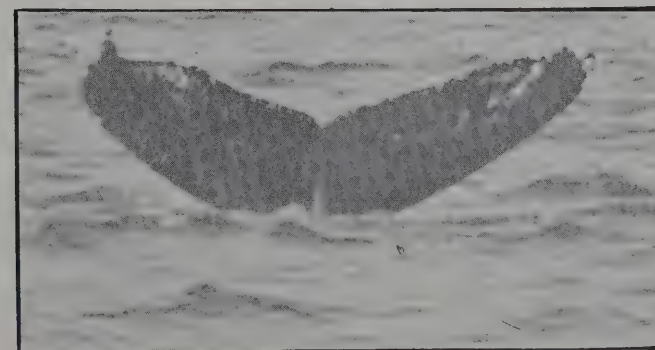
O101B



O178B

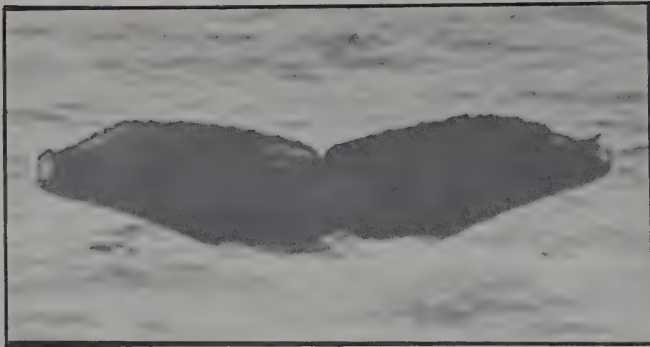


O143

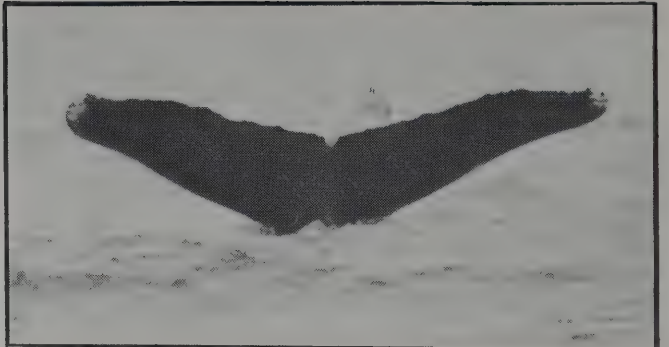




O199



O168A



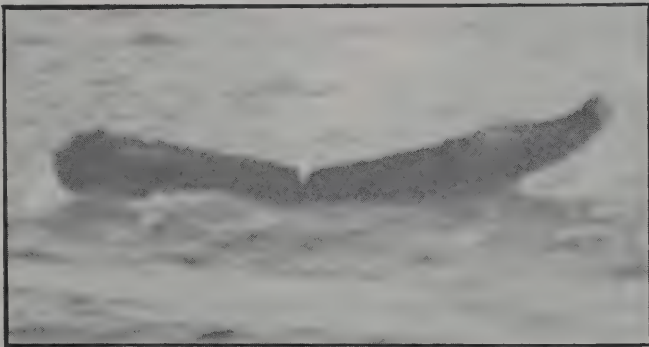
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O168B



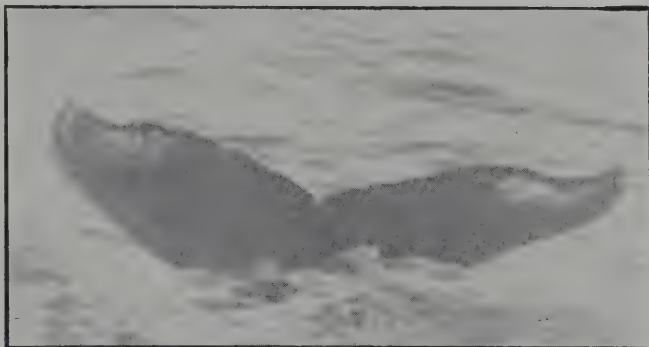
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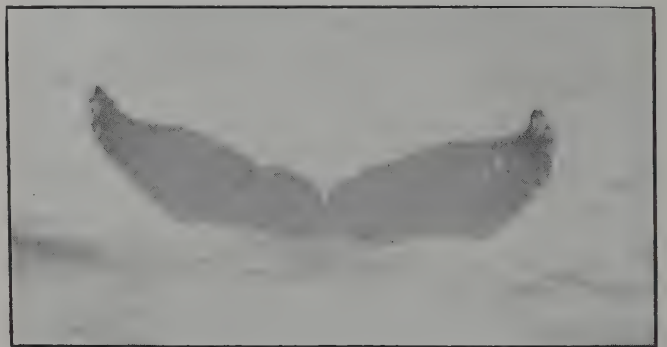
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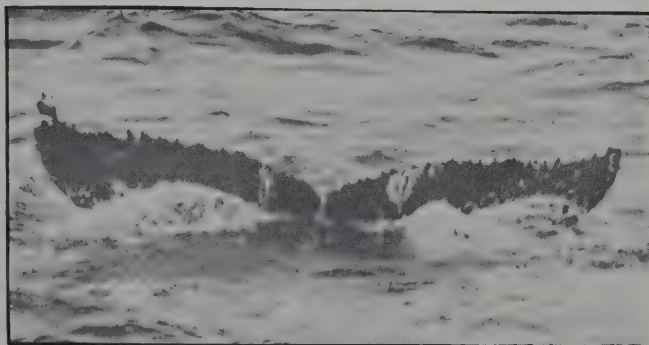
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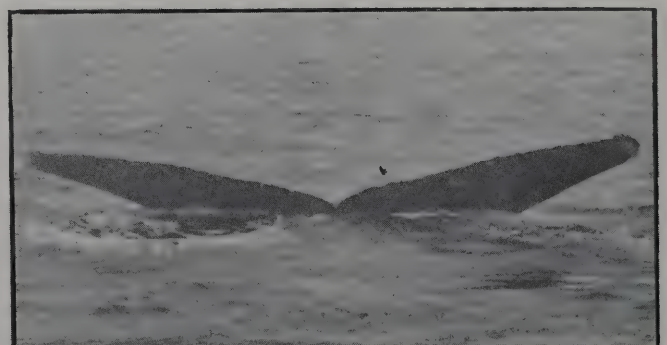
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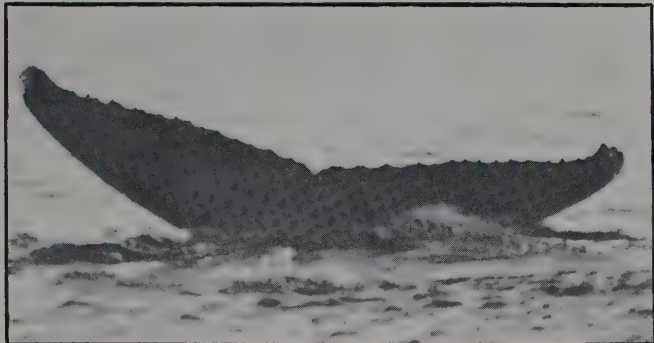
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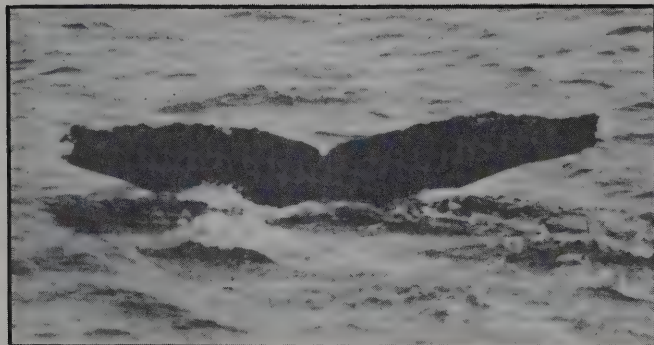
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O204



O201



O206

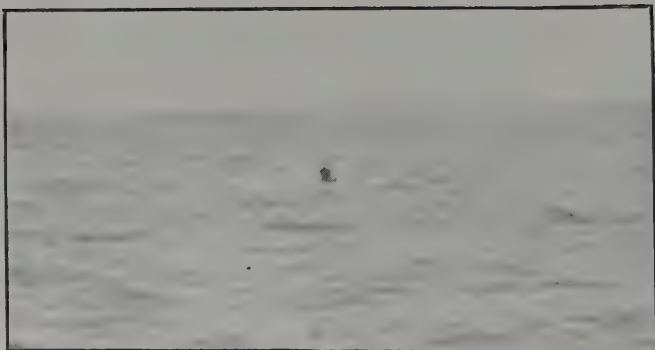




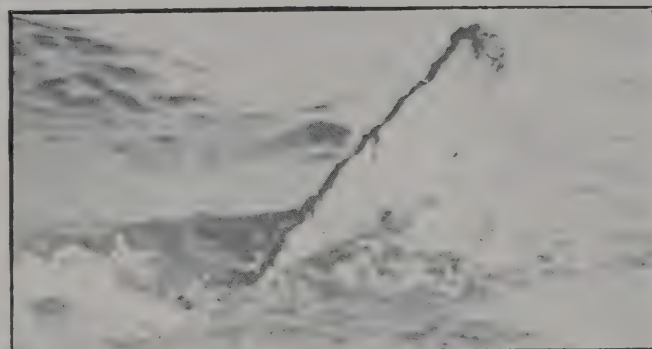
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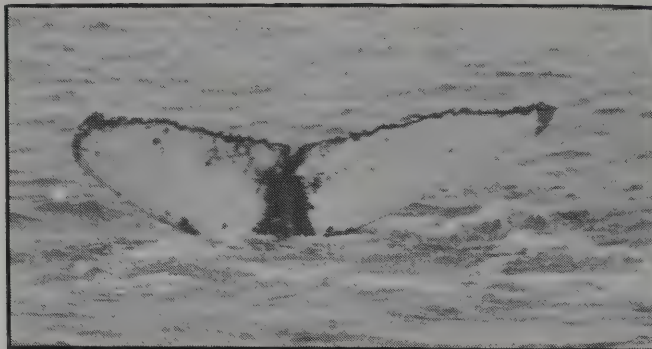
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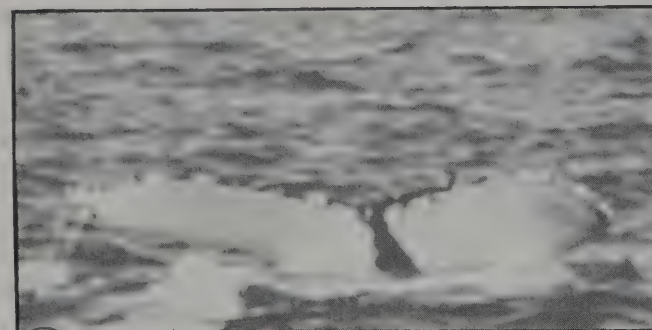
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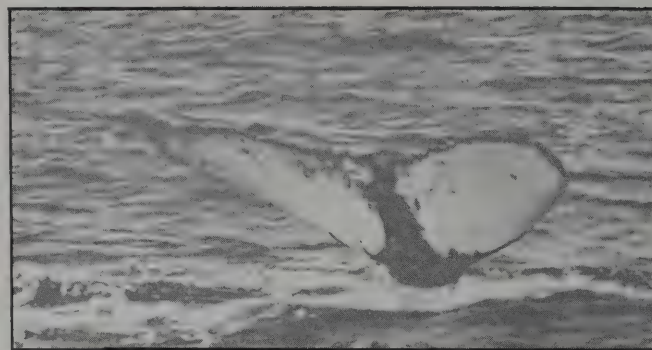
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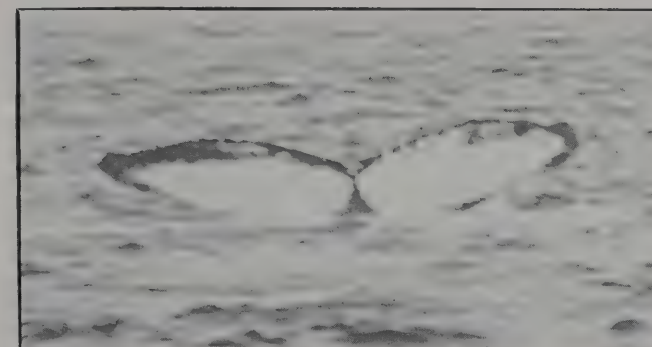
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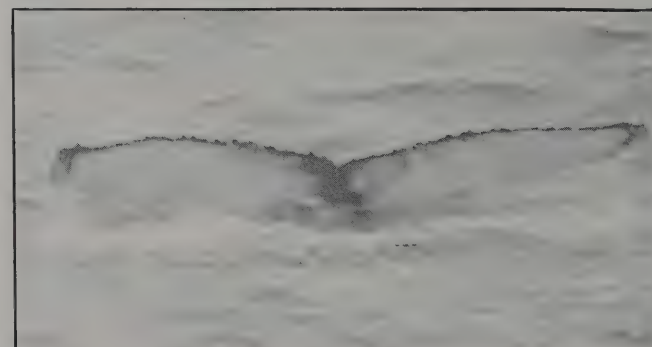
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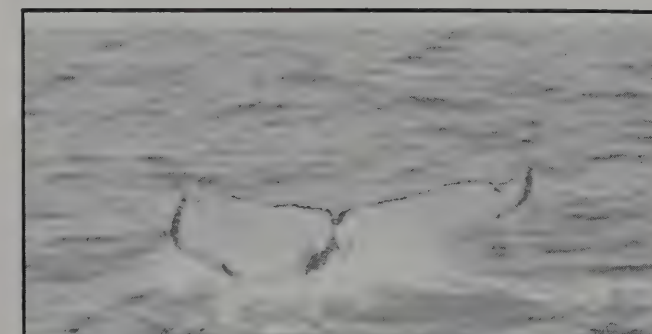
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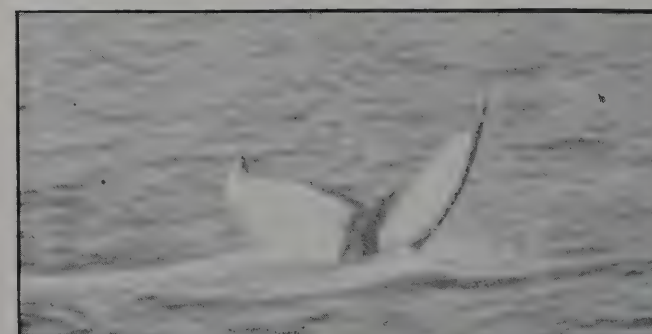
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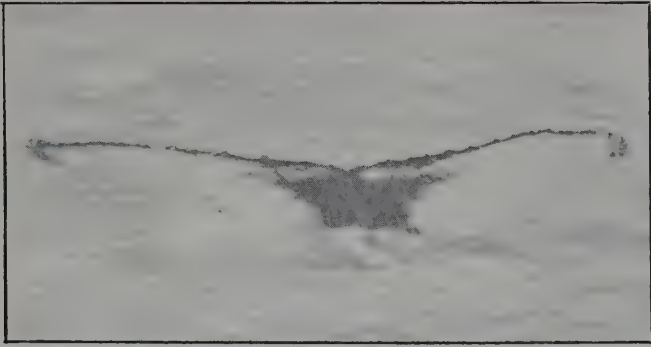
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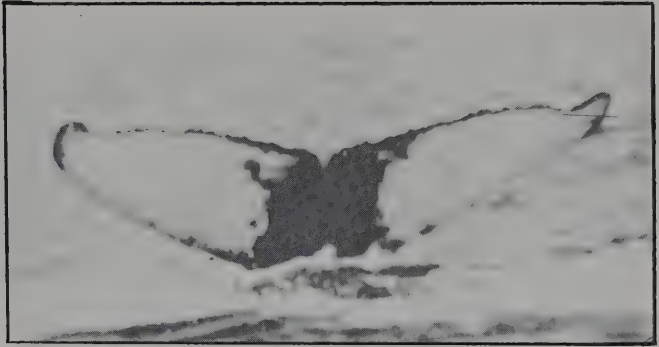
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6006



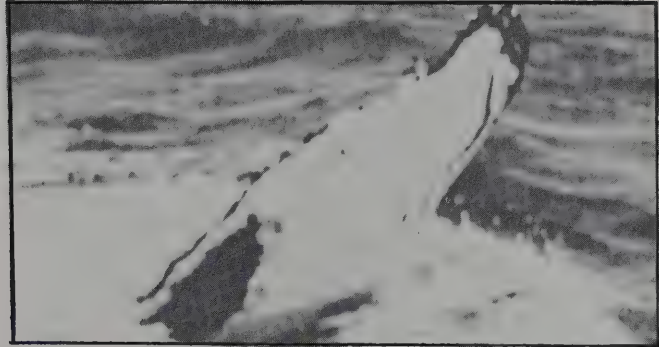
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0044A



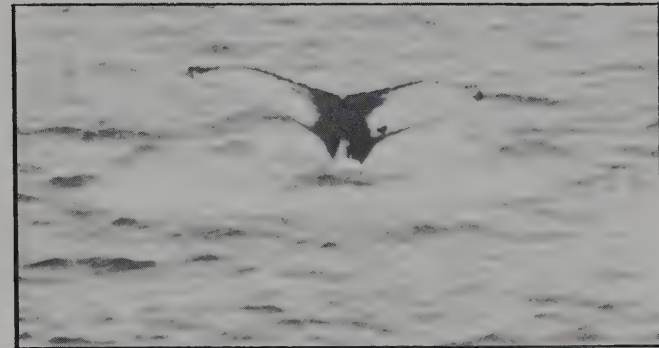
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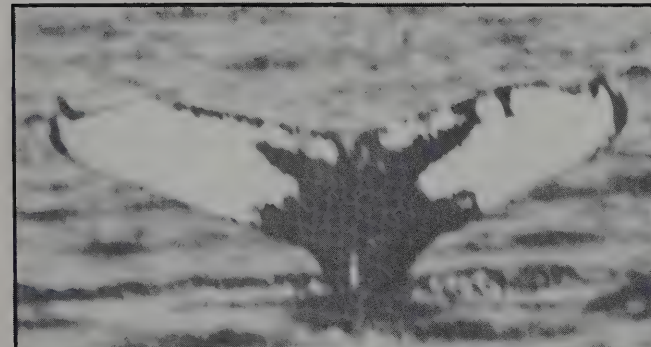
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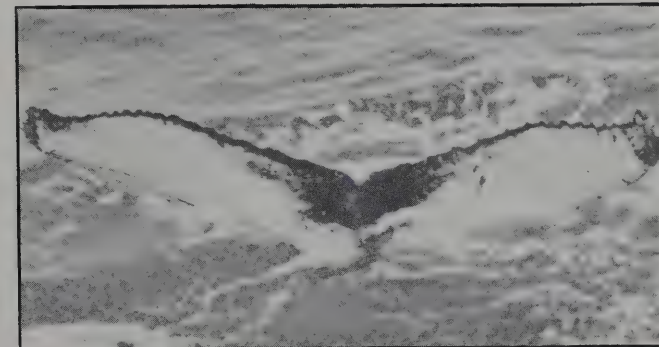
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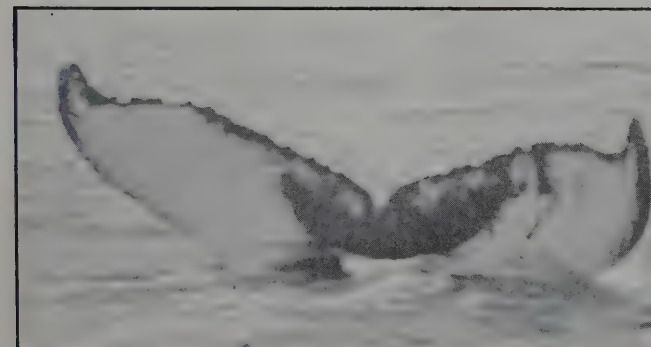
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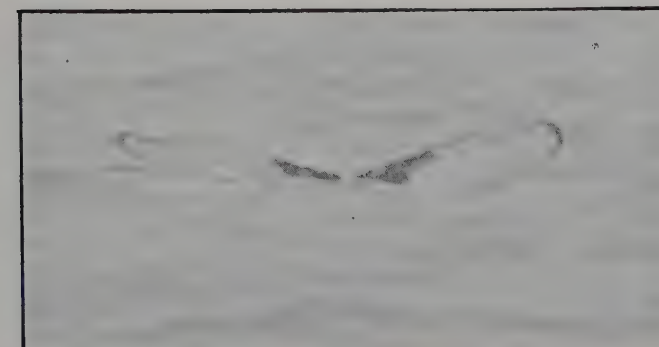
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0040B

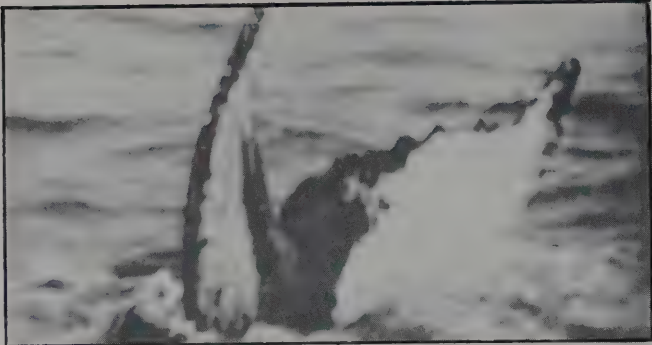


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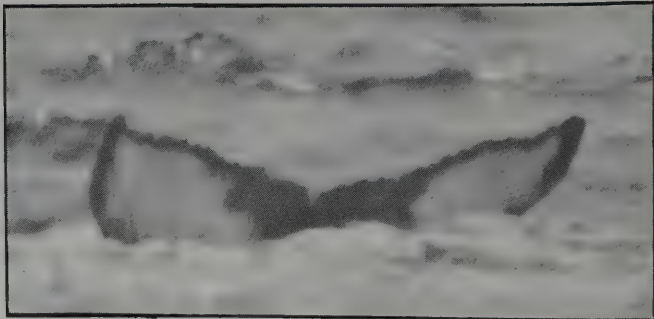




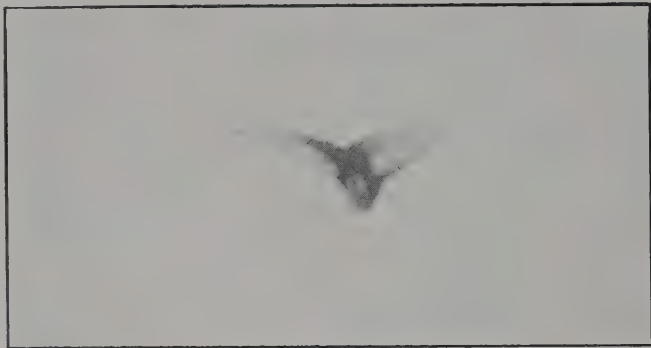
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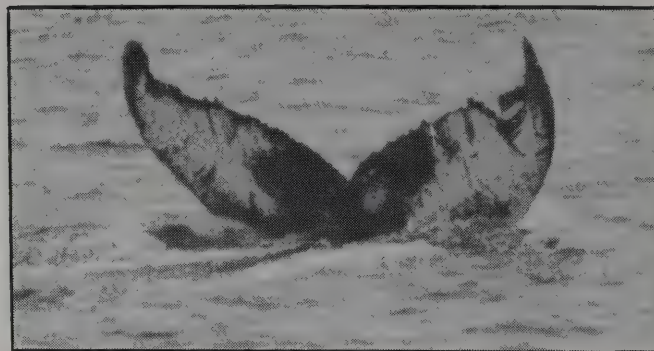
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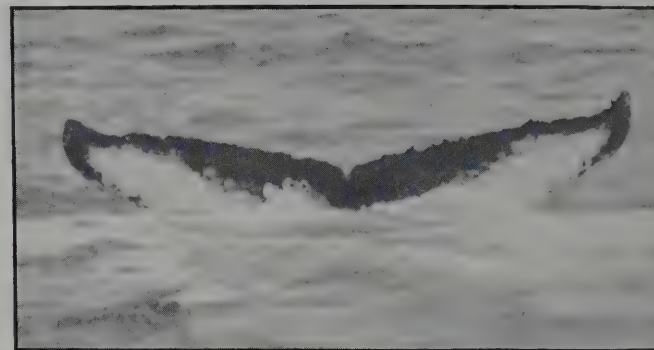
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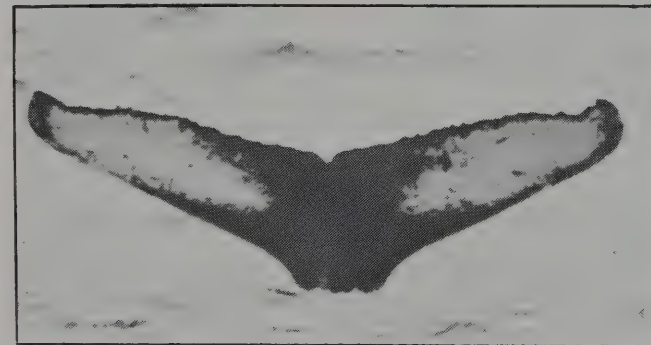
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6009



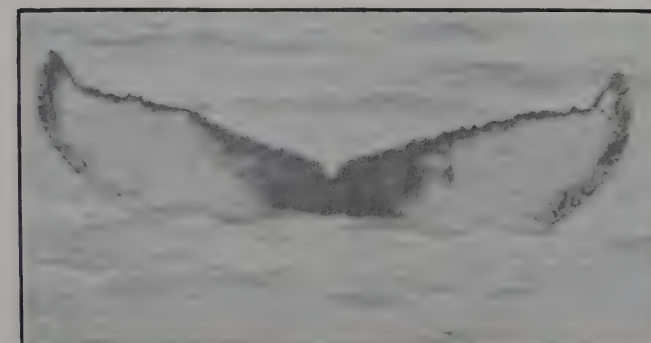
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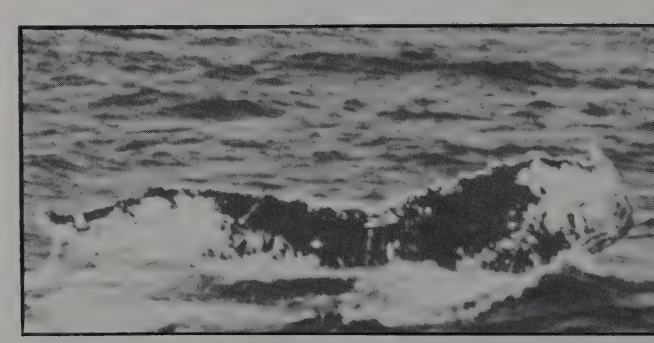
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6005B

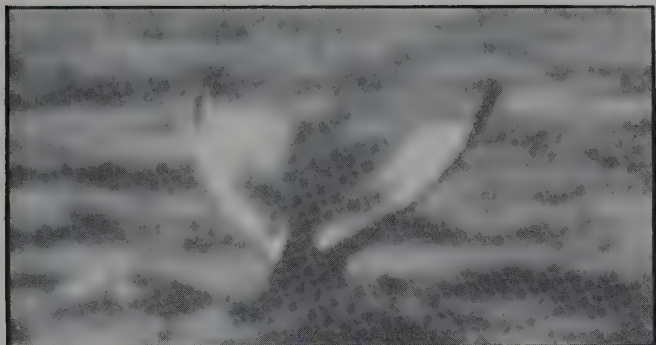


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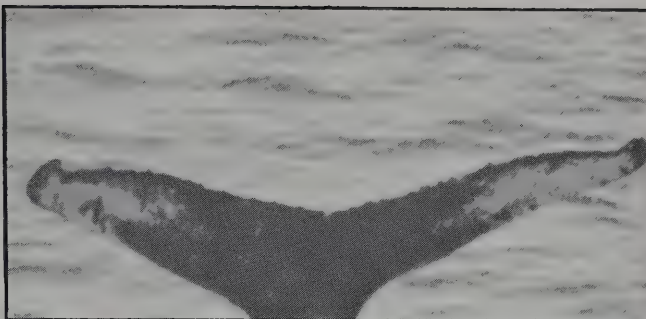




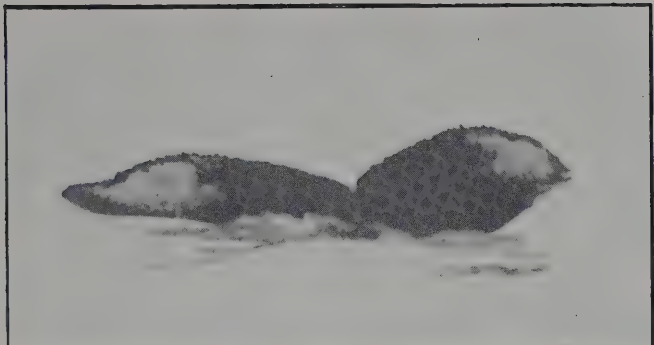
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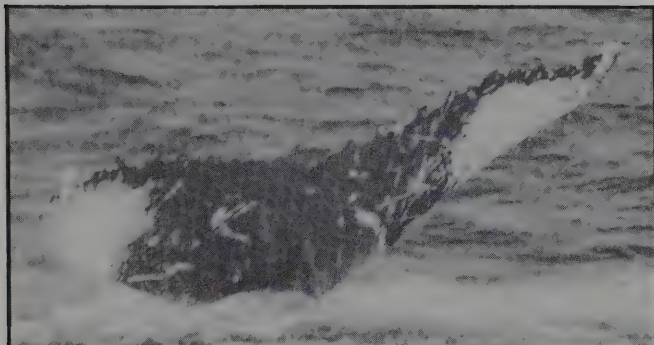
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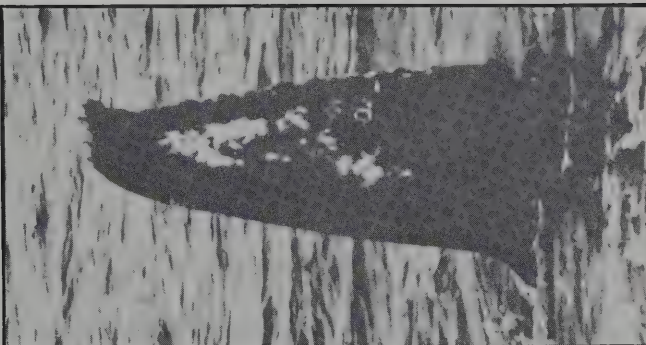
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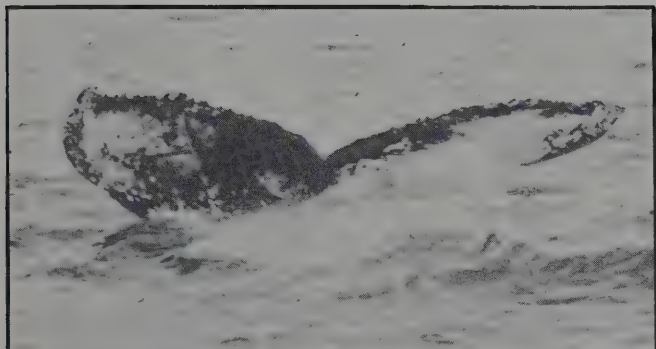
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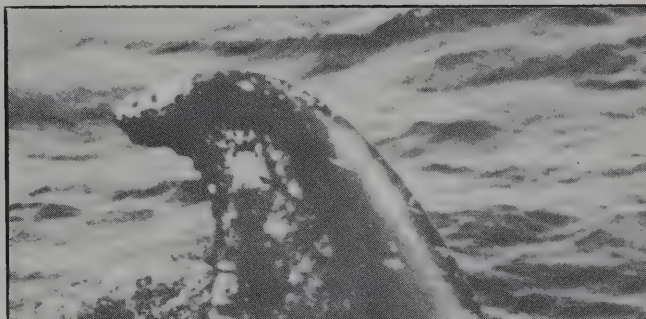
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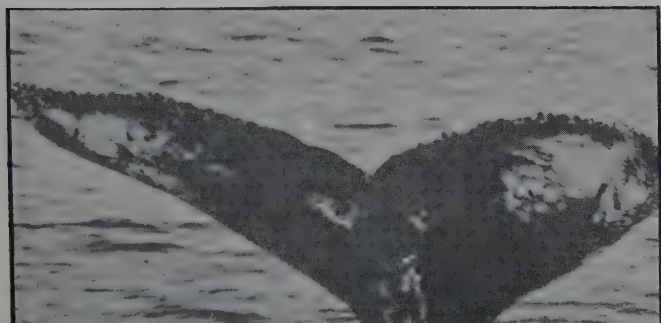
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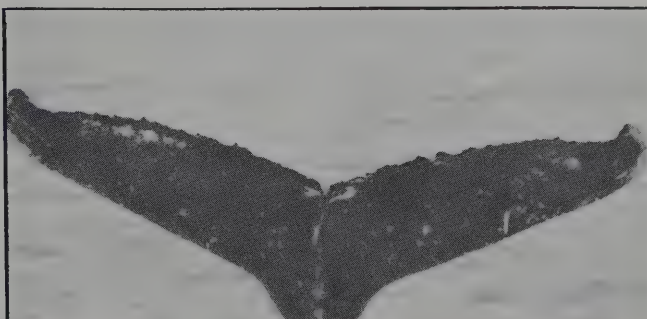
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0061B



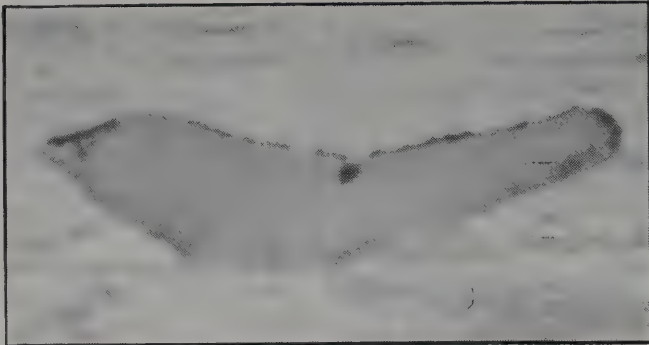
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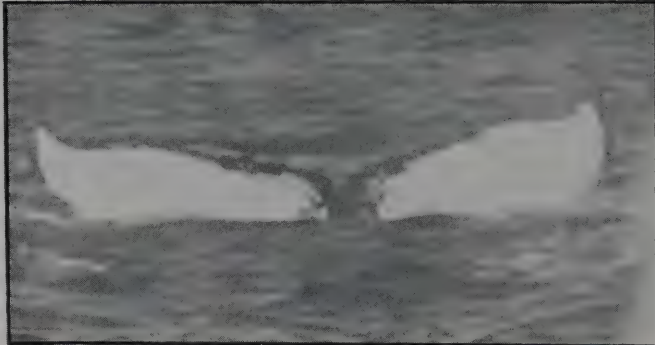
B  
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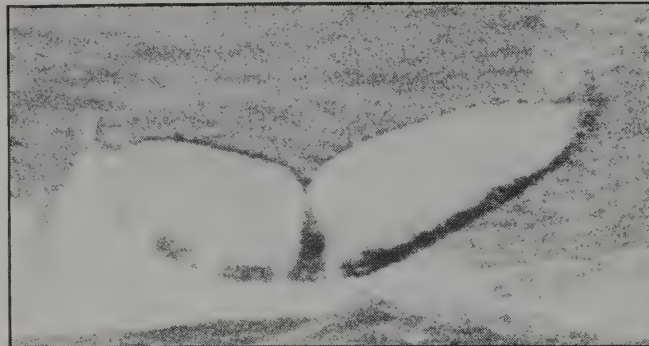
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2538



2505



2549



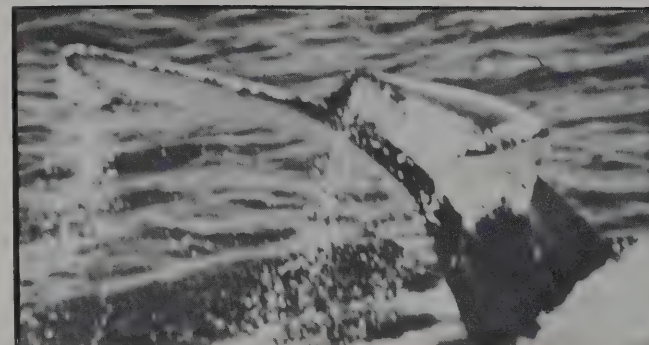
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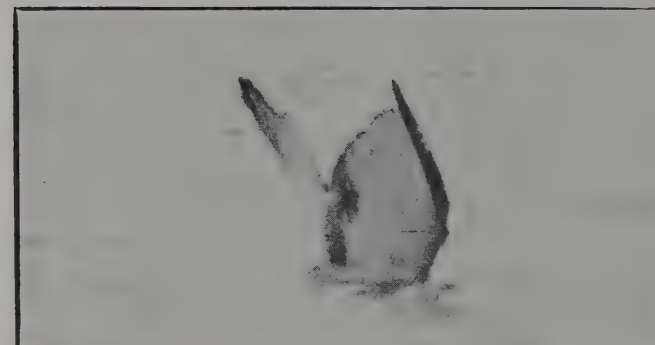
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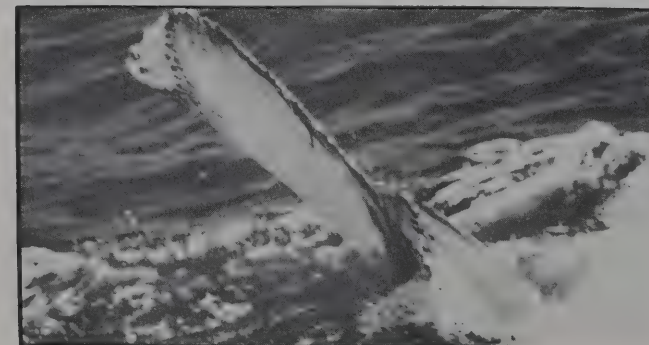
0013A



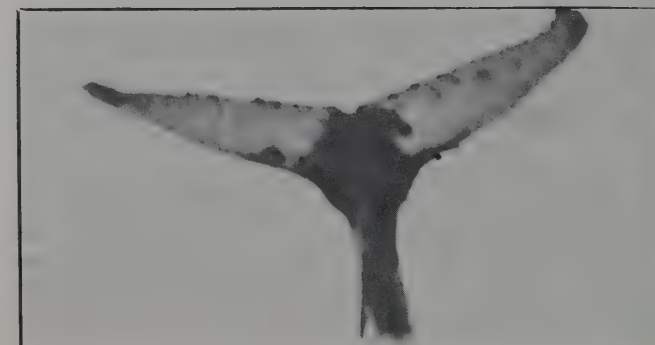
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0013B

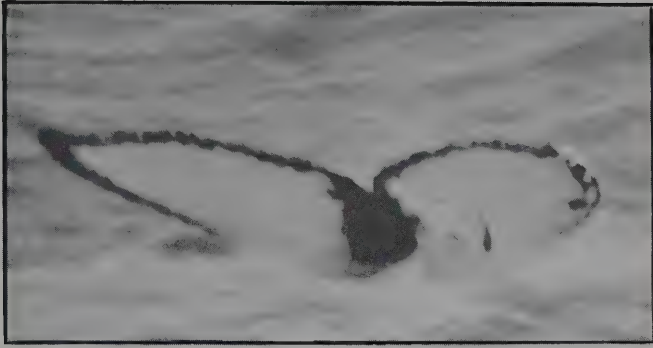


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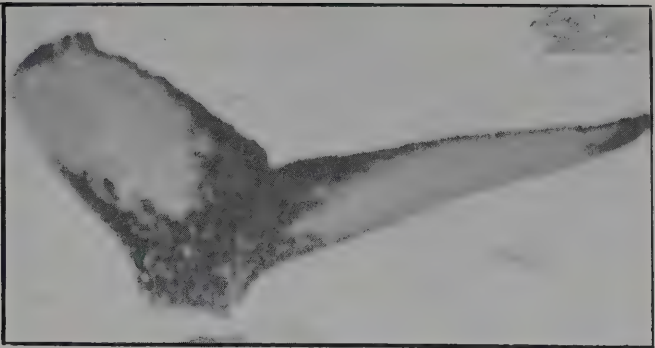




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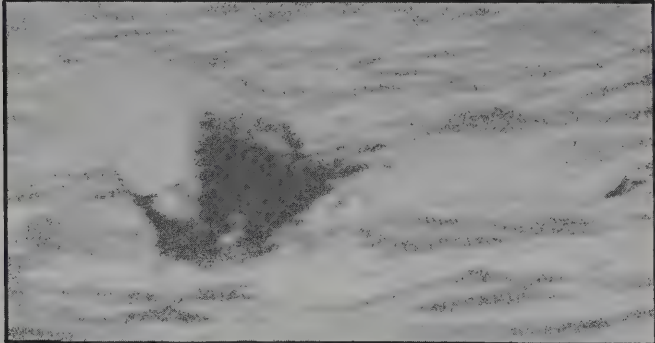
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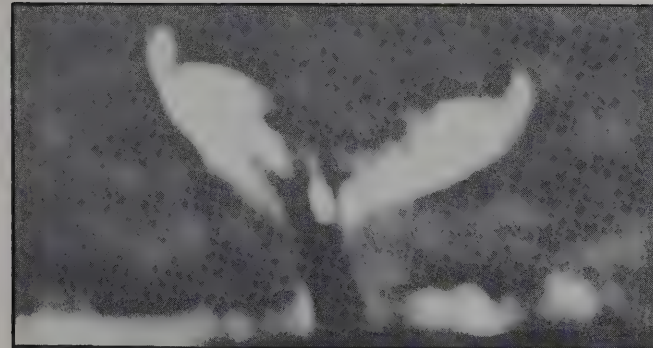
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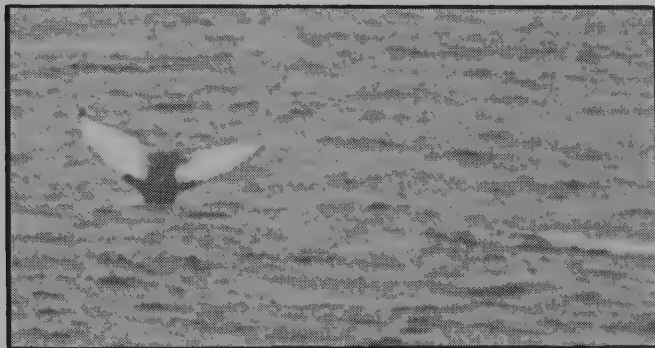
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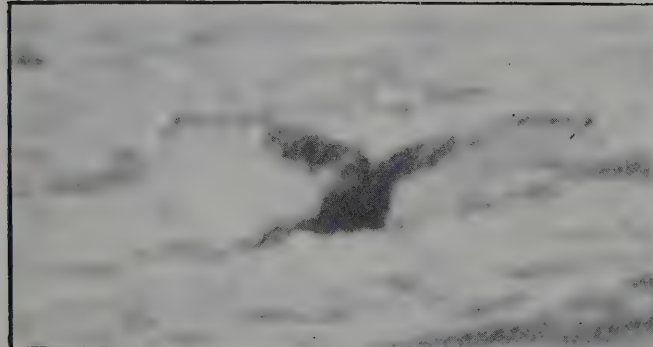
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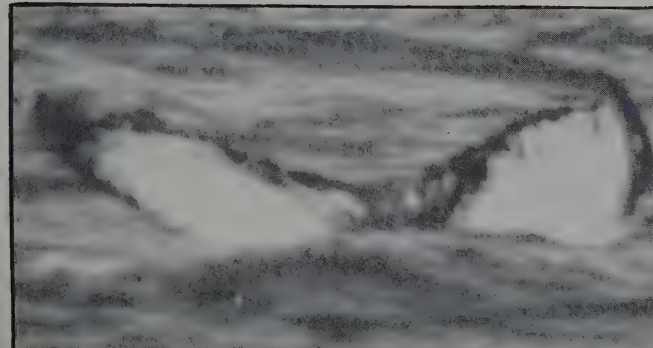
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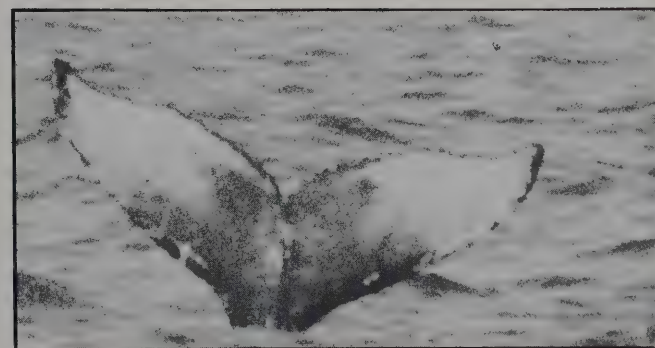
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2501



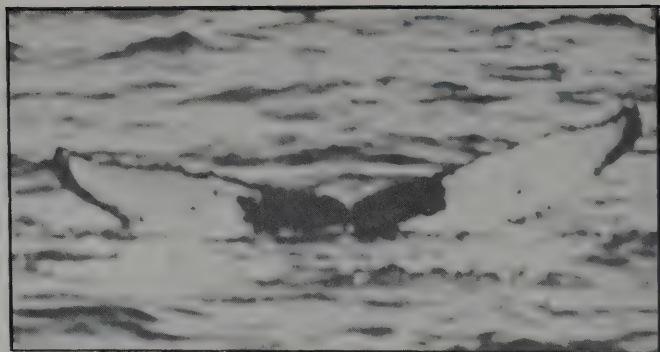
C  
A  
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I  
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E  
A  
N



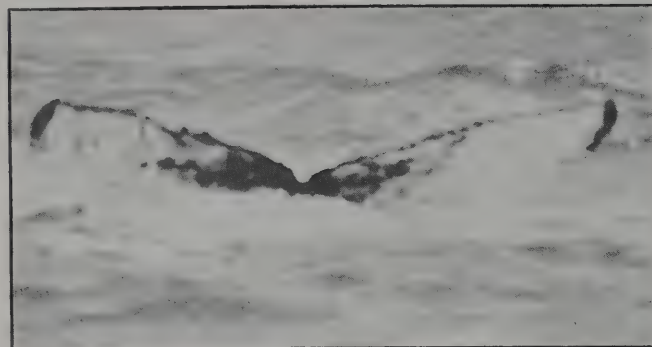
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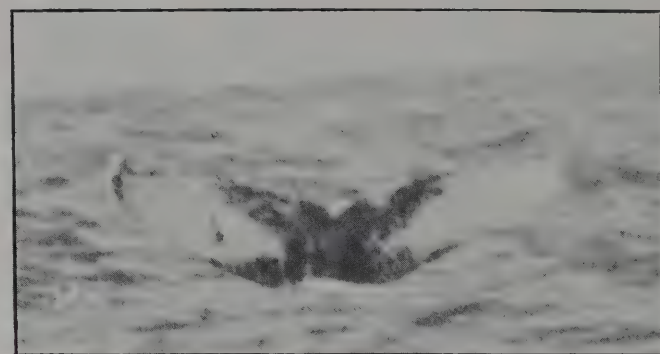
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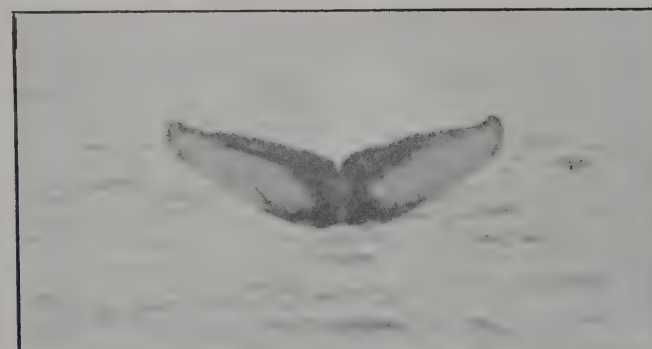
2506B



2522



2523



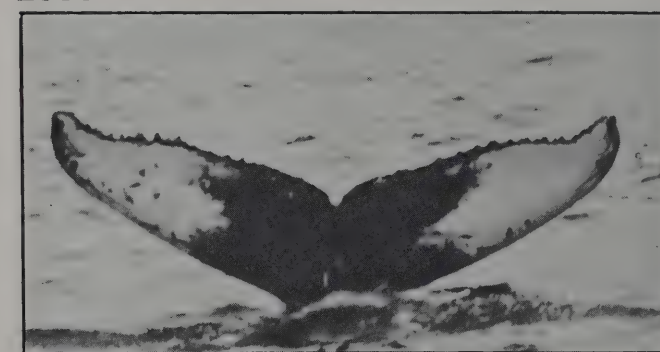
0059



2509A



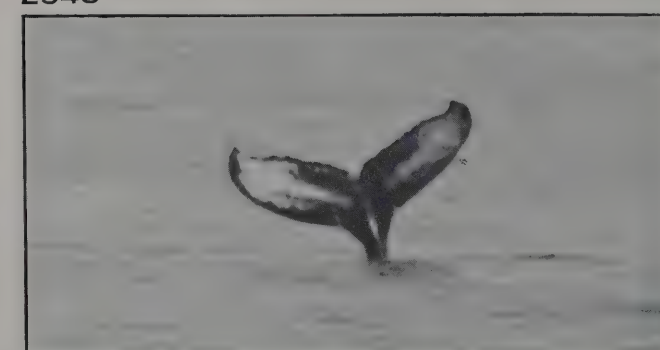
2500



2509B



2548

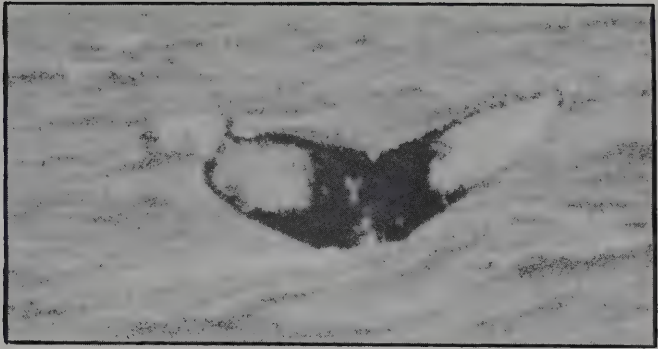




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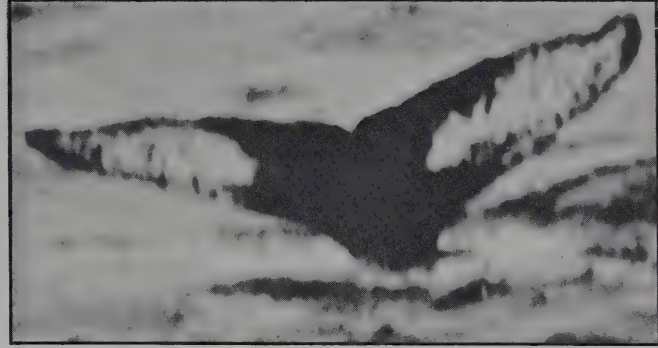
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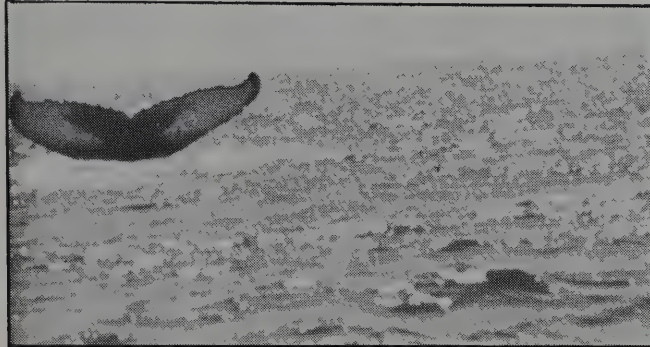
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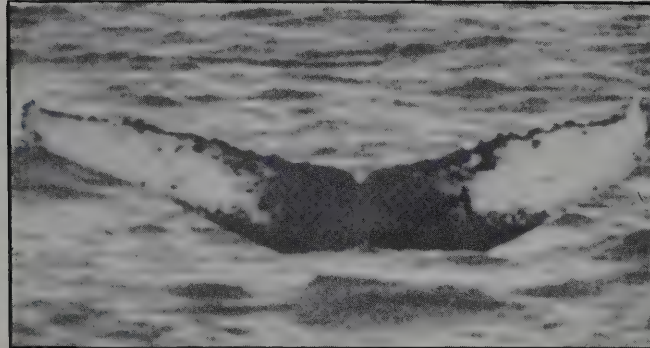
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2525



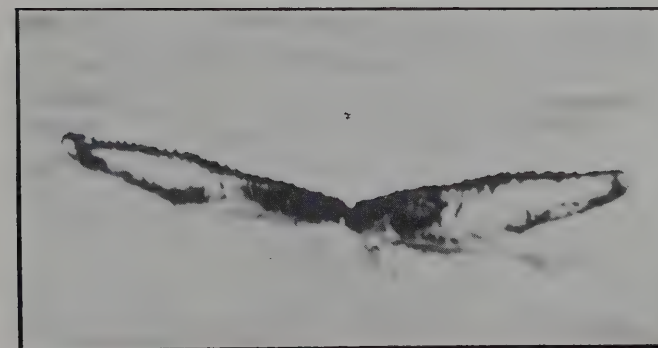
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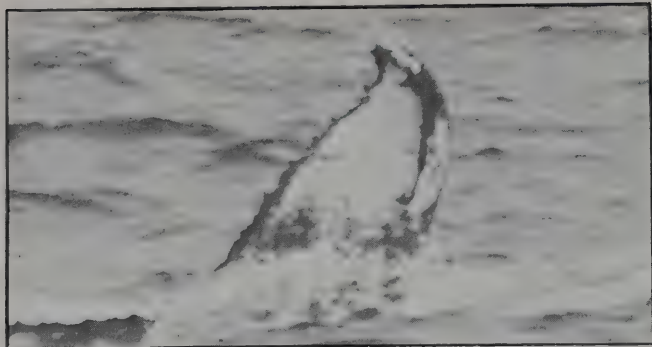
0070B



C  
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N



0051



0056



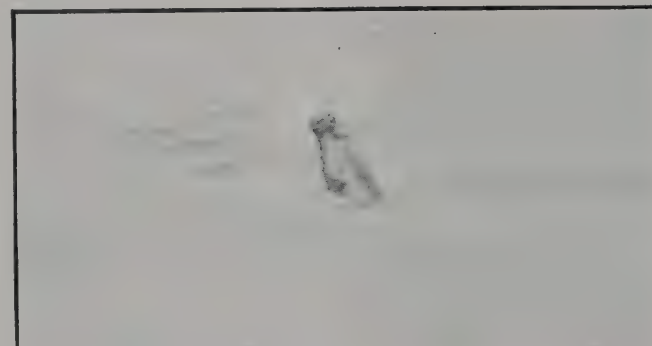
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0058



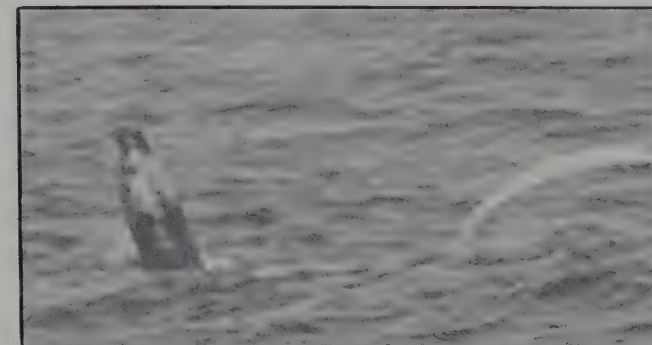
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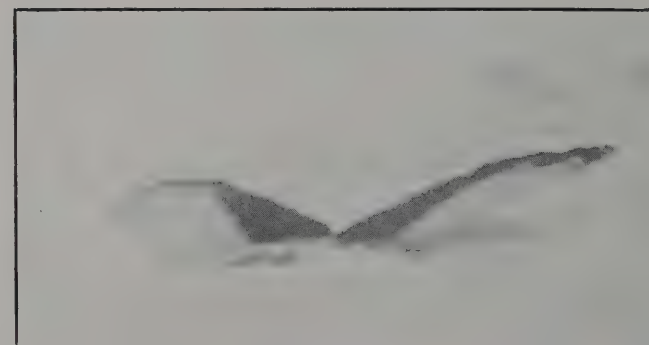
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2529



2541



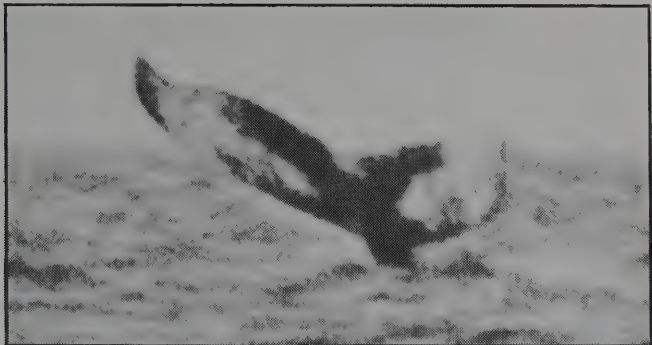
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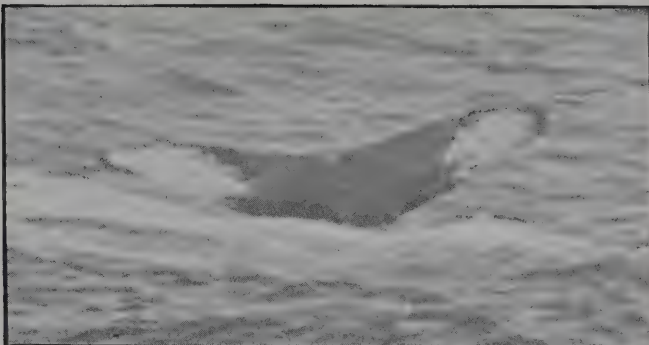
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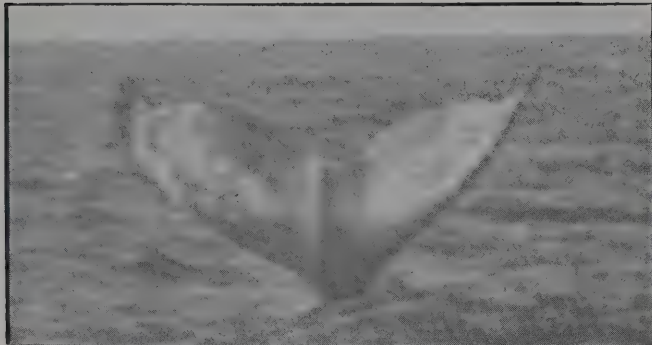
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2526



2504B



2544



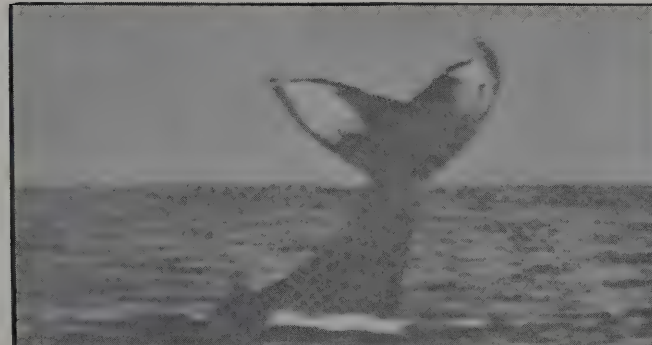
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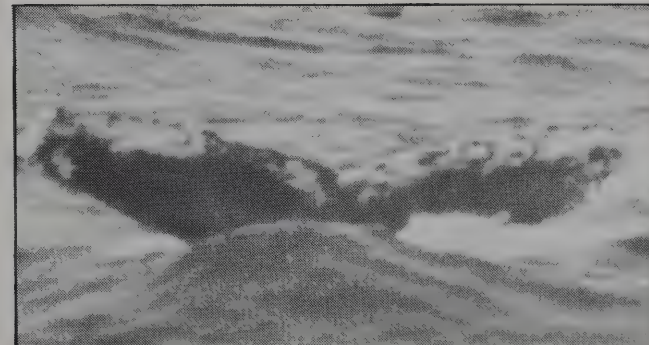
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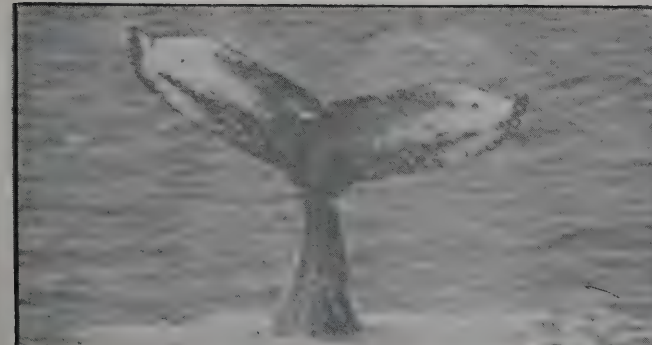
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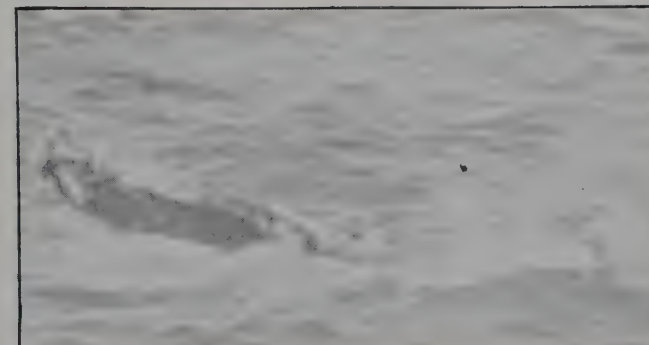
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2513

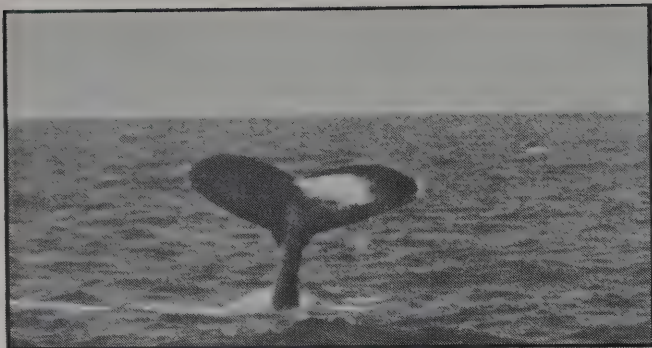


2533B





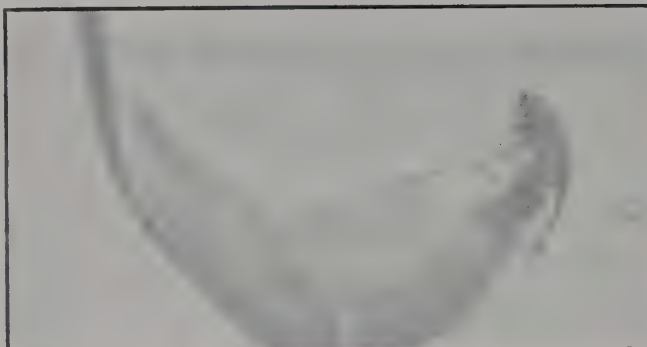
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2543A



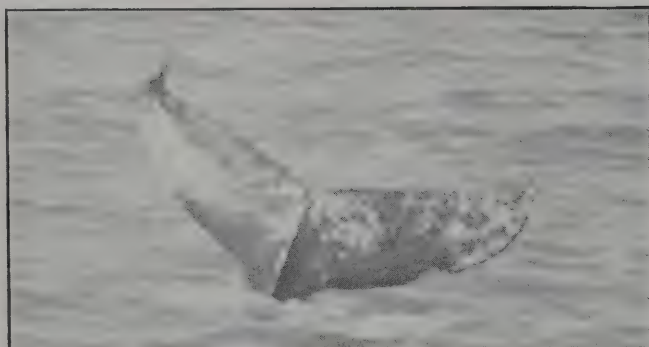
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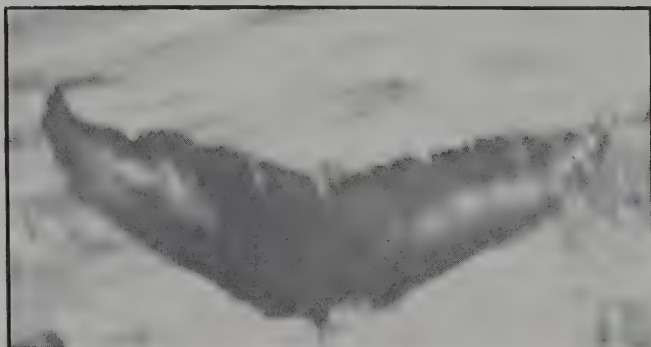
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0103



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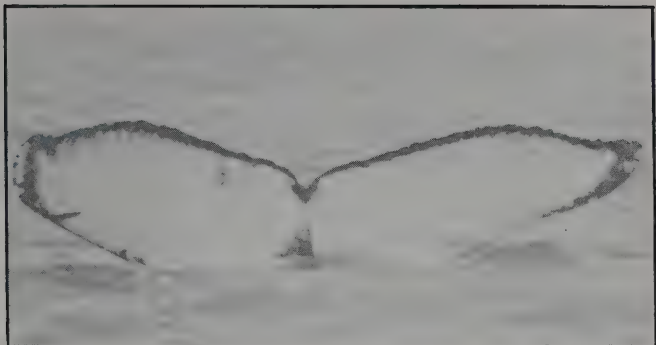


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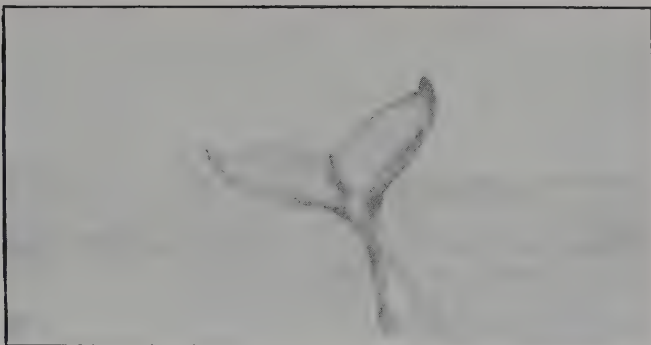




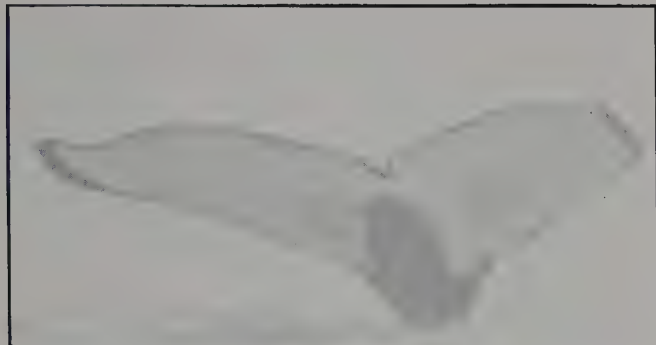
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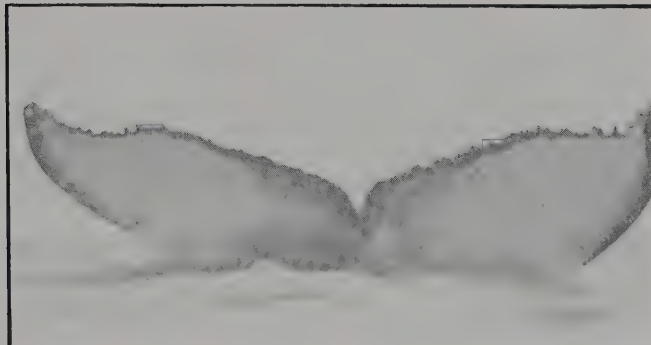
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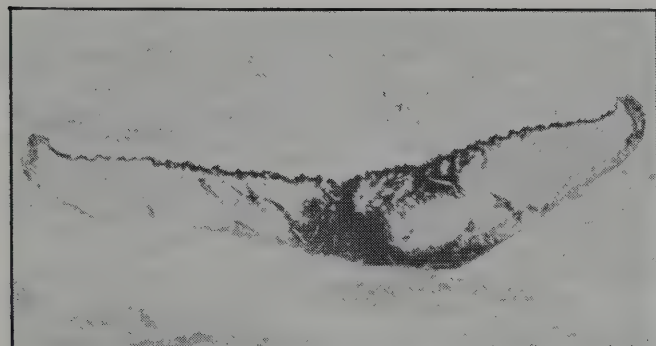
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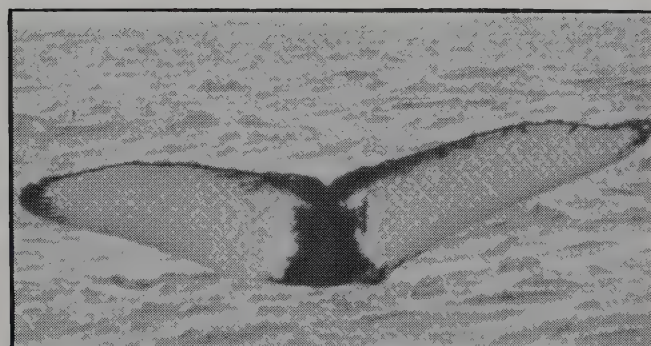
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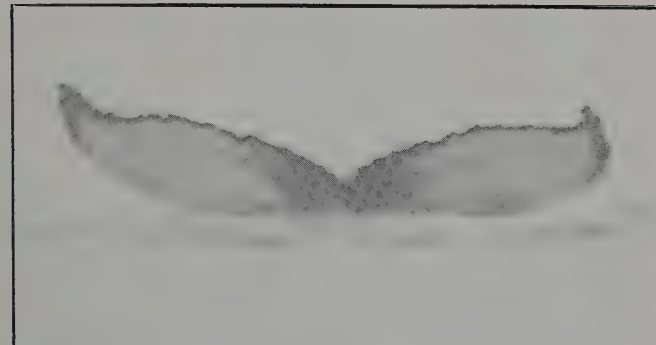
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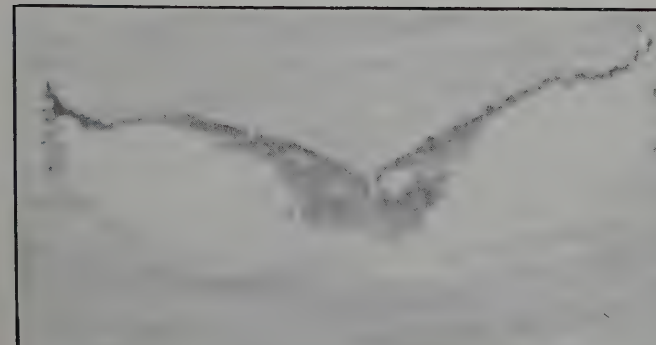
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2013



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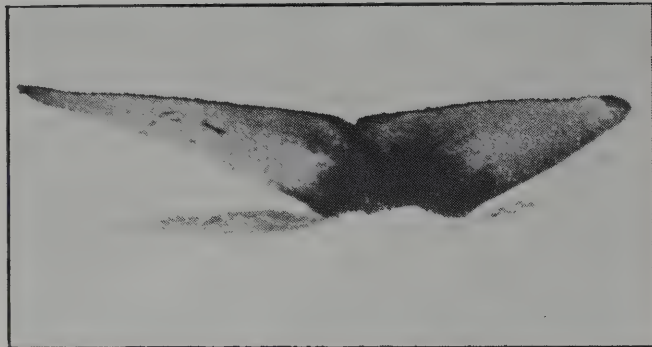
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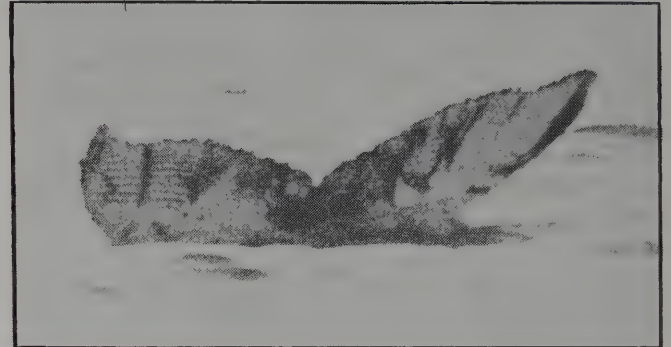
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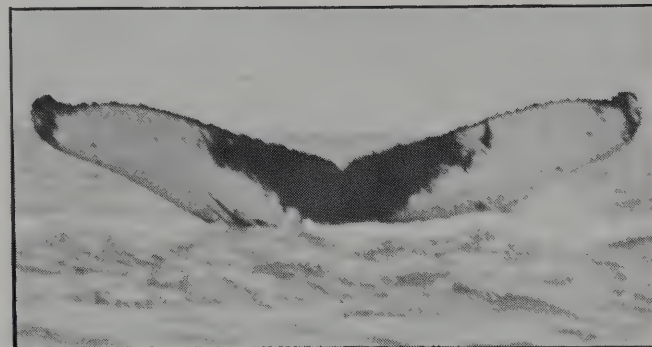
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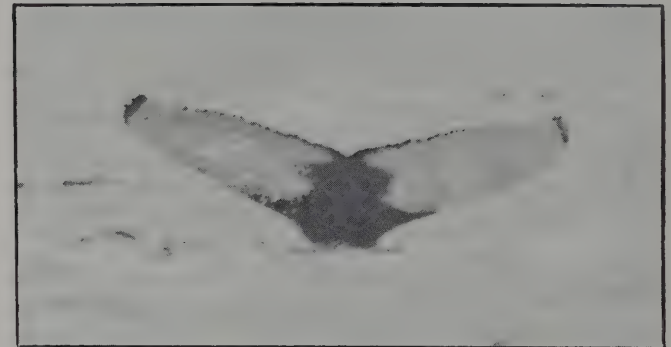
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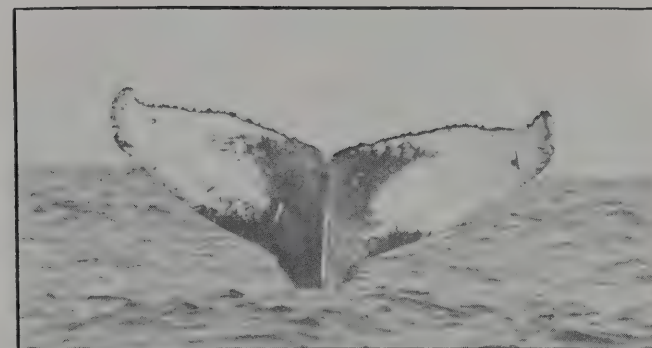
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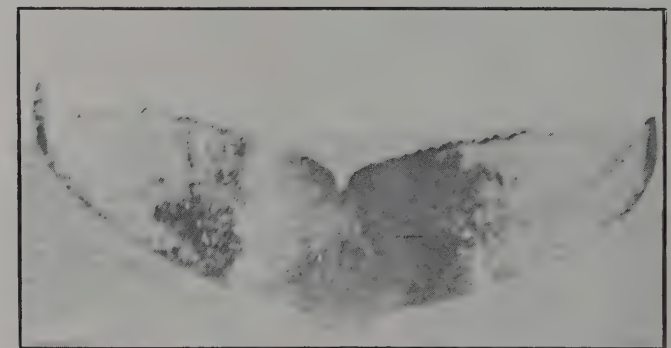
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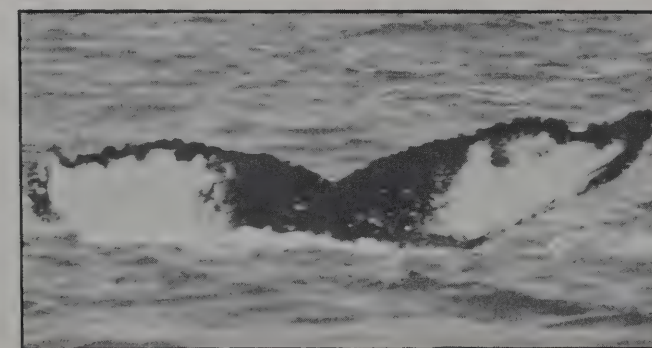
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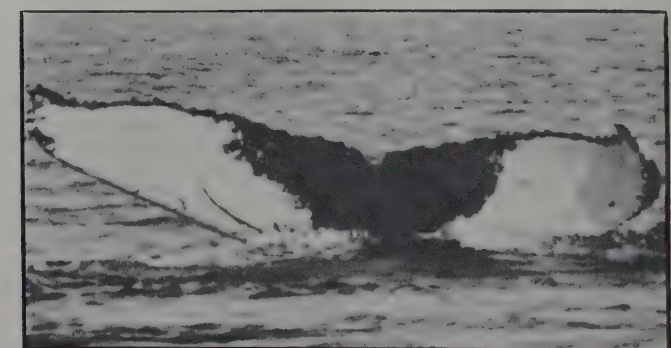
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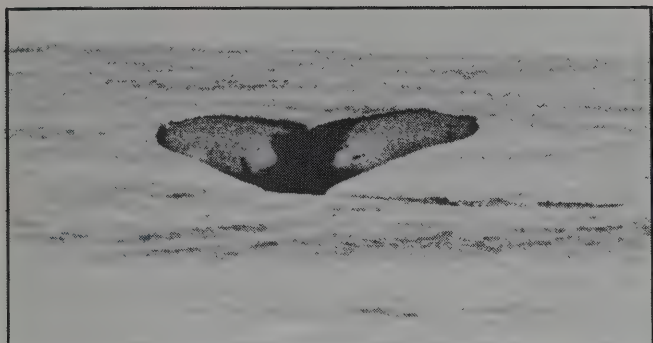


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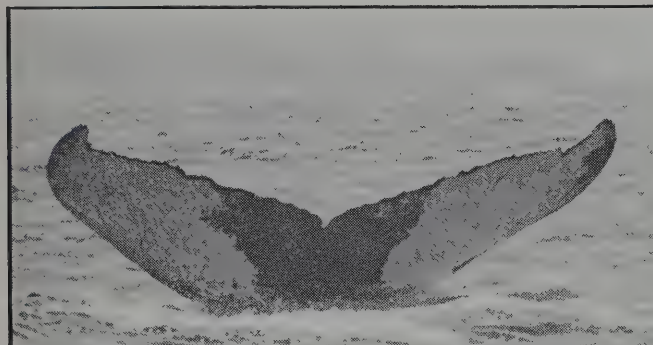
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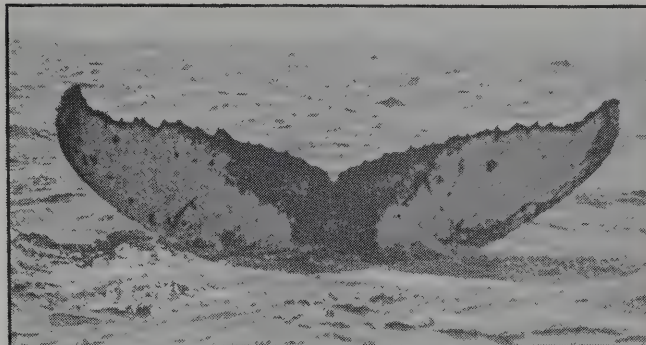
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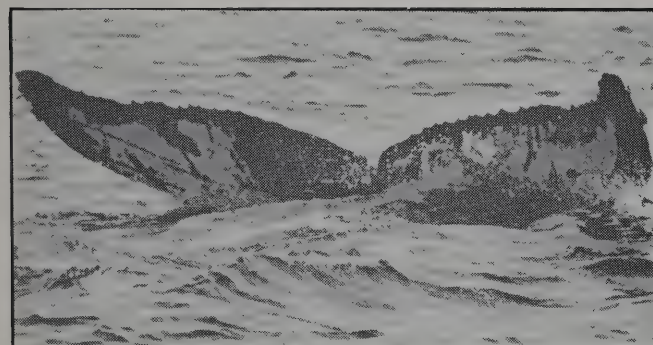
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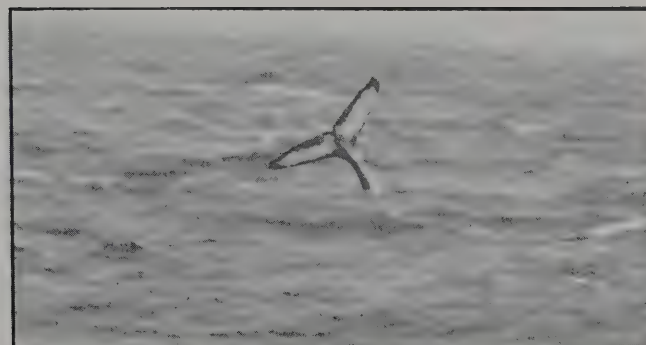
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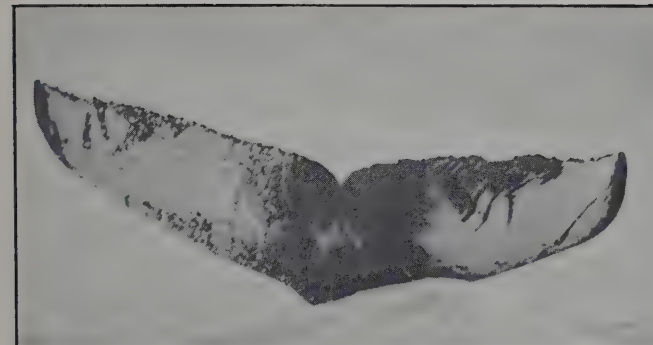
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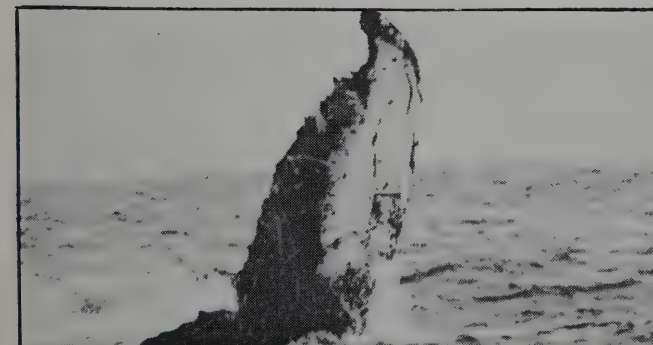
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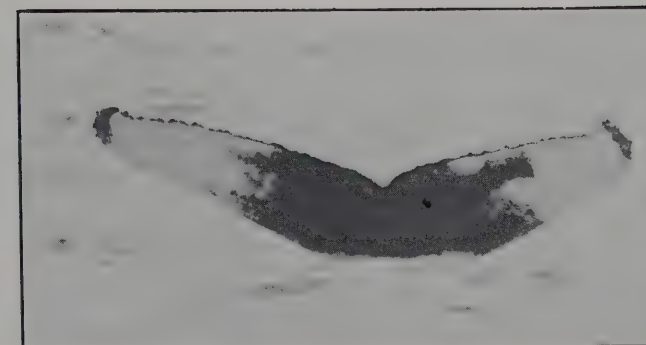
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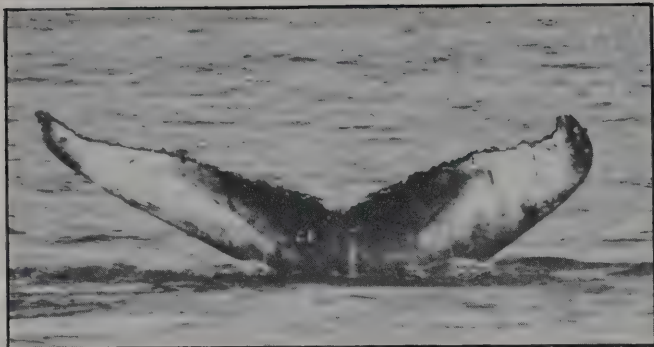


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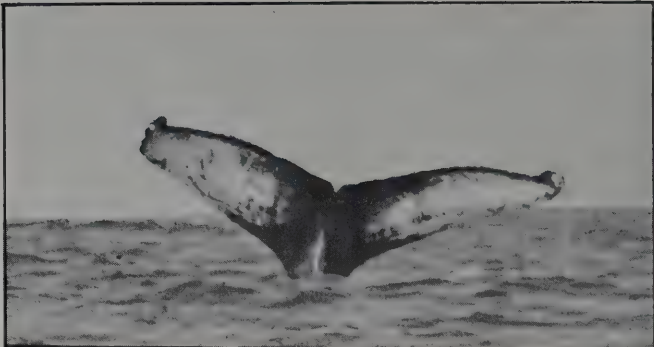




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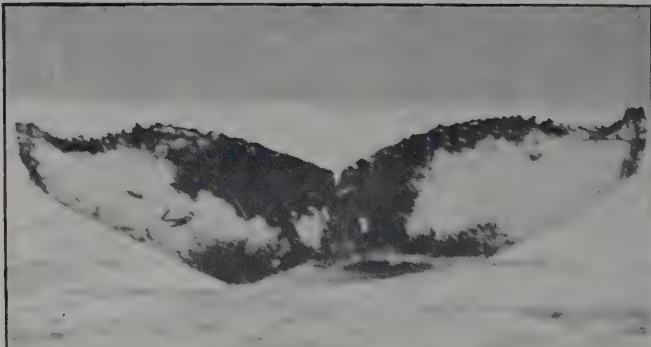
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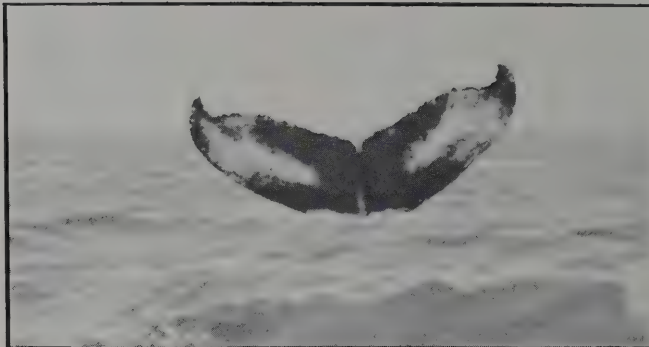
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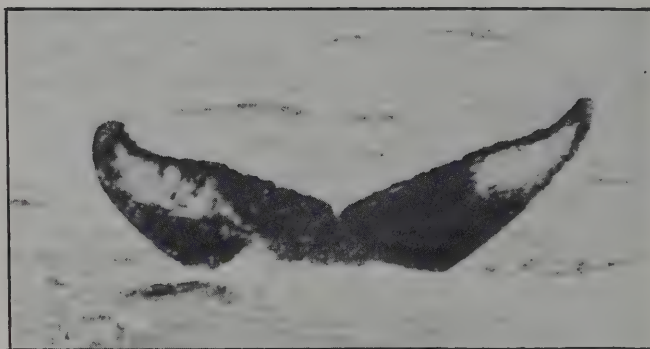
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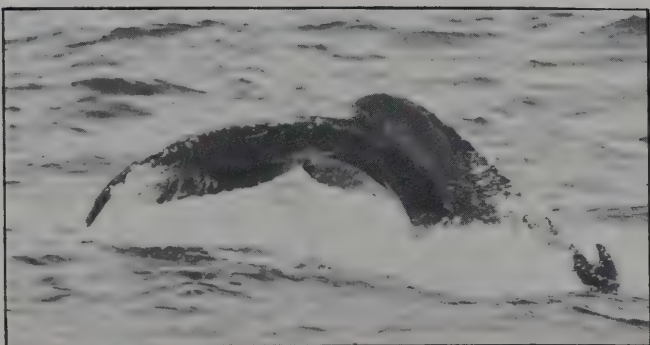
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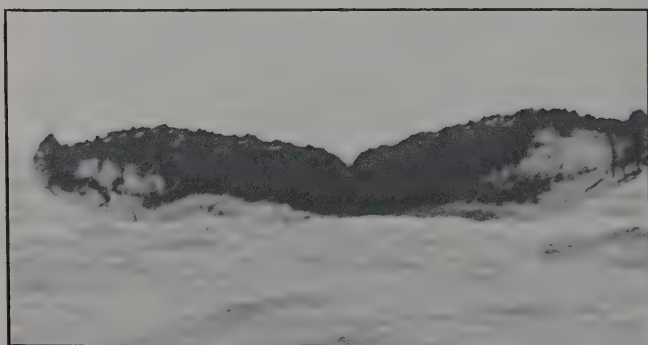
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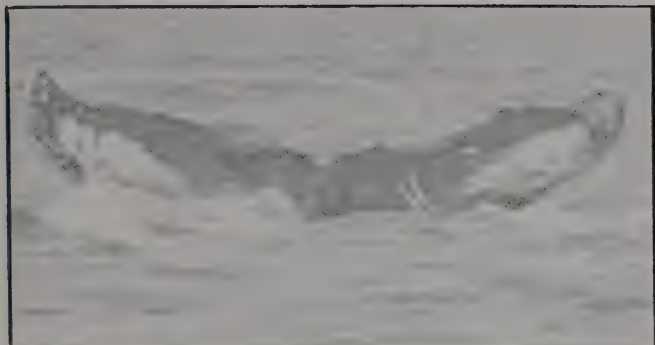
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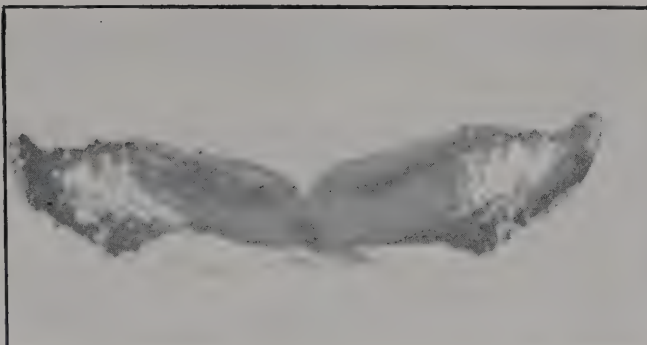
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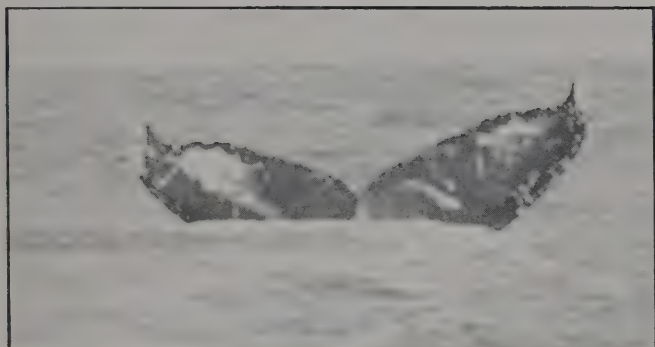
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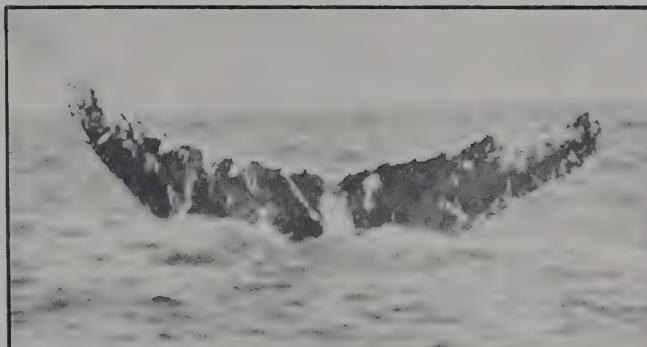
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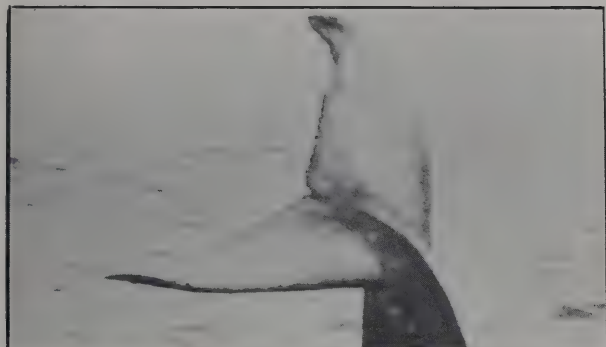
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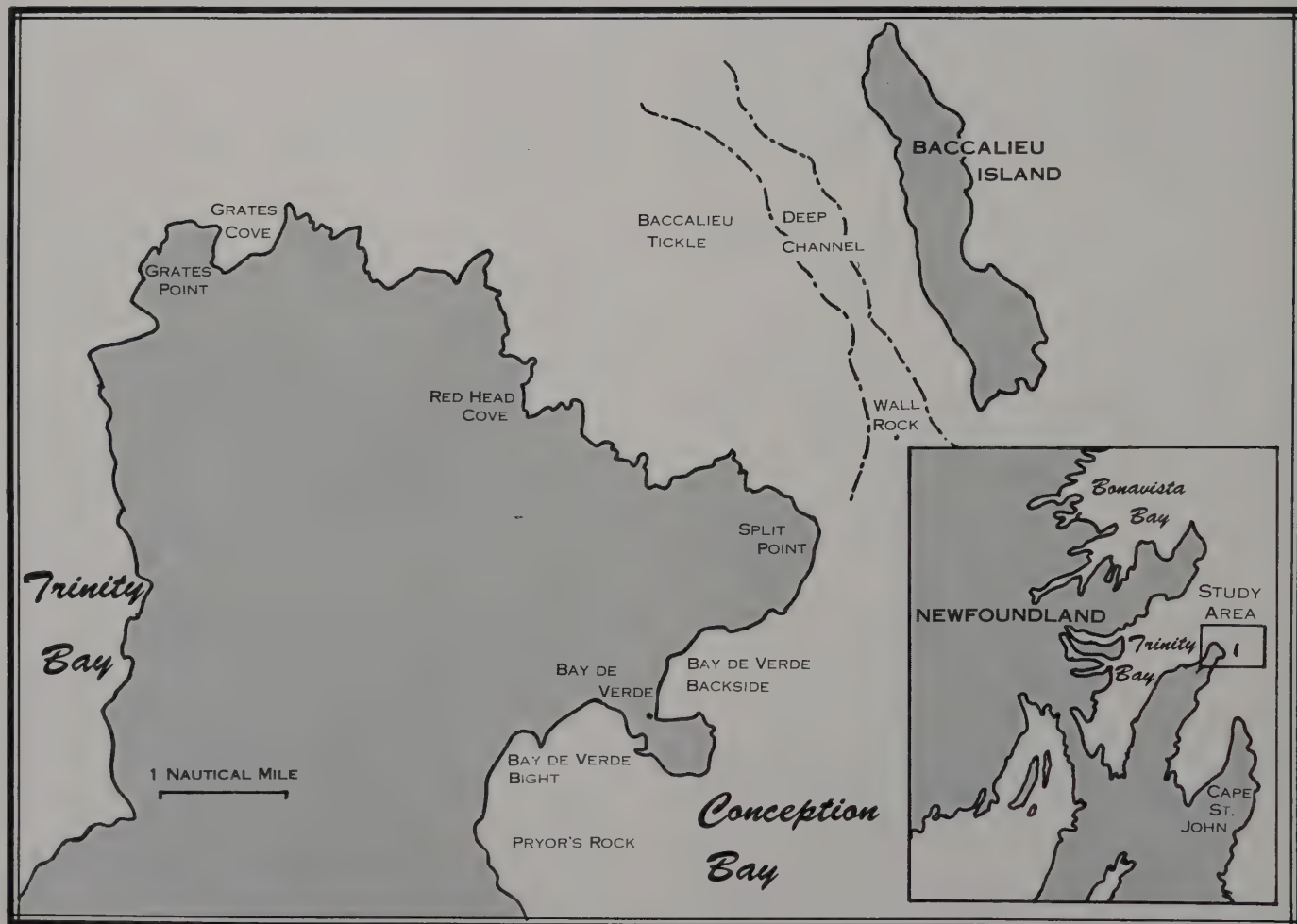
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# INDEX TO PHOTOGRAPHS

## Notes

1. An asterisk (\*) indicates that the numbered whale is known only from its dorsal fin. No fluke photograph was obtained.
2. The notation "VACANT" indicates that the number is available for future catalogue use.
3. Photographs credited to H. Whitehead reflect the group efforts of H. Clark, P. Harcourt, K. Ingham, M. Moore, and H. Whitehead.
4. Abbreviations used in the index are: JP/HPW (Judy Perkins/Hal Whitehead); OB/SKK (Oliver Brazier/Steven Katona); SW/PH (Susan Whiting/Phillips Harrington).
5. The following catalogued photographs are not included in the volume: 0011, 0092, 0112, 0123, 1343, 1509, 1615.
6. Locations named in the index are transcribed from information provided by photographers. Most locations can be found in a comprehensive atlas. Newfoundland locations can be found in Sailing Directions: Newfoundland (Department of the Environment, Ottawa, Canada, available for purchase from Information Canada, Ottawa).
7. Most of the locations listed for H. Whitehead photographs are found in a study area centered on Bay de Verde, Newfoundland, as shown below.



# INDEX TO PHOTOGRAPHS

WHALE						
NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
0001	117	Jeffreys Ledge	24 Sep 1976	S. Katona	1	34
0002	110	Gray Island, Nfld.	27 Jul 1975	JP/HPW	2	7
0003	110	Elliston, Nfld.	-- Jul 1976	S. Kraus		
0004	117	Mt. Desert Rock	29 Jul 1976	S. Katona	4	21
0005	110	Cape Ballard, Nfld.	30 Jun 1976	JP/HPW	1	5
0006	118	Mt. Desert Rock	29 Jul 1976	B. Baxter		28
0007	130	Bermuda	Spring 1970	R. Payne		
0008	130	Bermuda	24 Apr 1975	J. Frick	1	21
0009	130	Bermuda	15 Apr 1976	J. Frick		
0010	117	Brier Island, Nova Scotia	01 Oct 1974	W. Davidson	1	1
0011		Elliston, Nfld.	-- Jul 1976	D. Finnlayson		
0012	119	Jeffreys Ledge	23 Jul 1976	OB/SKK	8	31
0013 A	134	Silver Bank	18 Feb 1974	H. Winn	6	33
0013 B	134	Silver Bank	18 Feb 1974	H. Winn	6	31
0014	110	Off Elliston Harbor, Nfld.	05 Jul 1977	P. Cohen		
0015	111	Off Council Cove, Nfld.	02 Jul 1978	H. Whitehead	12	2
0016	118	Wooden Ball Island, Maine	22 Jul 1977	S. Katona		41
0017 A	130	Bermuda	15 Apr 1976	O. Brazier	2	27
0017 B	130	Bermuda	15 Apr 1976	J. Frick		
0018	130	Bermuda	15 Apr 1976	O. Brazier	2	16
0019	134	Silver Bank	06 Feb 1973	H. Winn	10	
0020	134	Navidad Bank	09 Feb 1973	H. Winn	7	
0021	111	Cape Bonavista Ledge, Nfld.	02 Aug 1976	JP/HPW	2	12
0022	135	Virgin Bank	08 Feb 1974	H. Winn	1	20
0023	111	Eagle Cove, Lab.	15 Aug 1976	R. Wells	2	15
0024	119	Jeffreys Ledge	23 Jul 1976	S. Katona	9	14
0025 A	111	Cape St. John, Nfld.	29 Jul 1976	JP/HPW	1	29
0025 B	111	Cape St. John, Nfld.	29 Jul 1976	JP/HPW		
0026	132	Bermuda	Spring 1970	R. Payne		
0027	120	Stellwagen Bank	28 Oct 1977	O. Brazier		A
0028	114	Cappahayden, Nfld.	02 Jul 1976	JP/HPW	1	11
0029	135	Virgin Bank	19 Feb 1973	H. Winn	27	
0030	112	Fortune Peninsula, Nfld.	26 Jul 1975	JP/HPW		
0031	112	Southeastern Newfoundland	08 Aug 1976	W. McDowell	29	10
0032	135	Near Mayaguez, Puerto Rico	12 Mar 1974	H. Winn	22	35
0033		VACANT				
0034	121	Jeffreys Ledge	23 Jul 1976	S. Katona	5	29
0035	121	Jeffreys Ledge	30 Oct 1976	S. Katona	1	29
0036	120	Off Provincetown, Mass.	01 May 1976	F. Gardner		
0037	132	Bermuda	22 Apr 1976	O. Brazier		
0038	131	Bermuda	Spring 1968	O. Brazier	3	11
0039	131	Bermuda	14 Apr 1970	P. Beamish	28	15
0040 A	131	Bermuda	15 Apr 1976	O. Brazier	29	11
0040 B	131	Bermuda	15 Apr 1976	O. Brazier	2	22
0041	136	Mouchoir Bank	20 Mar 1974	H. Winn	29	11
0042	113	Renews, Nfld.	06 Jul 1976	JP/HPW	1	14
0043	121	Jeffreys Ledge	23 Jul 1976	S. Katona	7	22
0044 A	131	Bermuda	15 Apr 1976	J. Frick		
0044 B	131	Bermuda	15 Apr 1976	O. Brazier	1	20
0045	132	Bermuda	15 Apr 1976	O. Brazier	2	16
0046	121	Jeffreys Ledge	14 Sep 1976	O. Brazier	3	20
0047	121	Jeffreys Ledge	14 Sep 1976	O. Brazier	4	12
0048	121	Jeffreys Ledge	29 Sep 1976	O. Brazier	1	17
0049		VACANT				
0050	121	Mt. Desert Rock	26 Jul 1976	B. Baxter	27	27A
0051	138	Navidad Bank	06 Feb 1973	H. Winn	11	



WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
0052	114	Cappahayden, Nfld.	04 Jul 1976	JP/HPW	1	10
0053	138	Silver Bank	19 Feb 1974	H. Winn	6	35
0054	122	Mt. Desert Rock	-- Jul 1976	B. Baxter	31	36
0055	137	Navidad Bank	14 Mar 1974	H. Winn	27	8
0056	138	Navidad Bank	13 Mar 1974	H. Winn	23	5
0057	113	Trinity Bay, Nfld.	04 Jul 1976	P. Beamish	173	3-9
0058	138	Silver Bank	17 Feb 1974	H. Winn	3	21
0059	136	Silver Bank	06 Feb 1973	H. Winn	11	
0060	137	Navidad Bank	09 Feb 1973	H. Winn	7	
0061 A	133	Bermuda	24 Apr 1976	O. Brazier	4	18
0061 B	133	Stony Island, Lab.	24 Aug 1979	H. Whitehead	65	2
0062	122	New Scantum Ledge	17 May 1980	S. Katona	2	13A
0063	122	Mt. Desert Rock	29 Sept 1976	S. Katona	10	26
0064	122	Jeffreys Ledge	23 Jul 1976	S. Katona	4	7
0065	112	Trinity Bay, Nfld.	18 Jun 1975	P. Beamish	150	18
0066	112	Tadoussac, Quebec	12 Aug 1972	P. Beamish	84	18
0067	132	Bermuda	15 Apr 1976	J. Frick		
0068	122	Jeffreys Ledge	29 Sep 1976	O. Brazier	2	21
0069	123	Jeffreys Ledge	10 Sep 1976	O. Brazier	1	10
0070 A	137	Silver Bank	18 Feb 1974	H. Winn	6	20
0070 B	137	Silver Bank	18 Feb 1974	H. Winn	13	21
0071	114	Cappahayden, Nfld.	04 Jul 1976	JP/HPW	1	9
0072	124	Wooden Ball Island, Maine	22 Jul 1977	S. Katona	3	1
0073	114	St. Mary's Bay, Nfld.	22 Jun 1975	S. Kraus		
0074	123	Stellwagen Bank	-- May 1980	P. Turnbull		179
0075	112	Tadoussac, Quebec	15 Aug 1972	P. Beamish	91	22
0076	125	Jeffreys Ledge	20 Jul 1976	O. Brazier	3	22
0077	114	E. of Wall, Bay de Verde, Nfld.	16 Jul 1979	H. Whitehead	36	6
0078 A	114	Funk Island, Nfld.	25 Aug 1977	JP/HPW		
0078 B	114	Cape Bonavista Ledge	02 Aug 1976	K. Balcomb	2	11
0079	133	Bermuda	15 Apr 1976	O. Brazier	2	15
0080	125	Scantum Ledge	18 May 1980	J. Gibbs		
0081	133	Bermuda	15 Apr 1976	O. Brazier		
0082	133	Bermuda	Spring 1968	R. Payne		
0083	140	Nechir Passage	16 Apr 1974	H. Winn	1	35
0084		VACANT				
0085	127	Jeffreys Ledge	23 Sep 1976	O. Brazier	1	30
0086	126	Jeffreys Ledge	24 Sep 1976	B. Baxter	1	154
0087	115	Cape St. John, Nfld.	29 Jul 1976	JP/HPW	1	32
0088	115	Eagle Cove, Lab.	15 Aug 1976	K. Balcomb	2	16
0089 A	115	Baccalieu Island, Nfld.	18 Jul 1976	JP/HPW	1	25
0089 B	115	Off Bay de Verde Head, Nfld.	21 Jul 1979	H. Whitehead	43	10
0090	115	Elliston, Nfld.	04 Jul 1976	P. Beamish	172	13
0091 A	126	Jeffreys Ledge	13 Nov 1976	S. Katona	2	11
0091 B	126	Jeffreys Ledge	13 Nov 1976	S. Katona	0	15
0092		Fortune Peninsula, Nfld.	26 Jul 1975	JP/HPW		
0093	125	Jeffreys Ledge	23 Jul 1976	S. Katona	15	9
0094 A	133	Bermuda	15 Apr 1976	O. Brazier	1	4
0094 B	133	Bermuda	15 Apr 1976	J. Frick		
0095	126	Mt. Desert Rock	29 Jul 1976	S. Katona	3	21
0096	128	Jeffreys Ledge	29 Sep 1976	O. Brazier	1	21
0097 A	116	Funk Is., Nfld.	25 Aug 1976	R. Wells	268	
0097 B	116	Funk Island, Nfld.	25 Aug 1976	JP/HPW	1	36
0098	133	Bermuda	Spring 1968	R. Payne		
0099	126	Mt. Desert Rock	-- Jul 1976	B. Baxter	17	28
0100	92	Jeffreys Ledge	10 Sep 1976	O. Brazier	1	3
0101 A	91	Mt. Desert Rock	29 Jul 1976	S. Katona	5	26
0101 B	91	Mt. Desert Rock	29 Jul 1976	B. Baxter	5	27
0102	92	Stellwagen Bank	Summer 1979	C. Mayo		
0103	140	Grenada	05 Feb 1972	H. Winn	6	

WHALE

NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
0104	128	Jeffreys Ledge	14 Sep 1976	O. Brazier	4	21
0105	116	Off Trinity, Nfld.	11 Sep 1979	P. Beamish		
0106	116	Trinity Bay, Nfld.	18 Jun 1975	P. Beamish	150	23
0107	116	Notre Dame Bay, Nfld.	27 Jul 1975	JP/HPW	2	7-9
0108		VACANT				
0109	111	Newfoundland	Summer 1975	B. Curtsinger		
0110	111	Notre Dame Bay, Nfld.	24 Jul 1975	G. Nichols		
0111	132	Bermuda	07 Apr 1968	C. Levenson		
0112		46°47' N, 52°48' W, Nfld.	08 Aug 1976	G. Manter		
0113	112	Williamsport, Nfld.	Summer 1975	B. Curtsinger		
0114	113	Newfoundland	Summer 1975	B. Curtsinger		
0115	114	Newfoundland	-- Jun 1975	B. Curtsinger		
0116	113	Notre Dame Bay, Nfld.	29 Jul 1975	JP/HPW	1	14
0117		VACANT				
0118	115	Pt. Lance, Nfld.	20 Jun 1975	B. Curtsinger		
0119	115	Notre Dame Bay, Nfld.	29 Jul 1975	JP/HPW	1	11
0120	128	Mt. Desert Rock	06 Sep 1975	S. Katona		
0121	133	Bermuda	Spring 1971	C. Levenson		
0122		VACANT				
0123		Wooden Ball Island, Maine	22 Jul 1977	S. Katona		44
0124		VACANT				
0125	119	Cape Cod Bay	-- Jun 1977	SW/FH		28
0126	118	Mt. Desert Rock	-- Jun 1977	S. Katona	1	25
0127	122	Mt. Desert Rock	03 Jul 1977	C. Ostrander	6	1
0128	124	Wooden Ball Island, Maine	22 Jul 1977	S. Katona		44
0129	119	Mt. Desert Rock	06 Jul 1977	S. Katona		
0130	128	Stellwagen Bank	28 Oct 1977	O. Brazier		"C"
0131	120	Stellwagen Bank	28 Oct 1977	O. Brazier		"D"
0132	124	Stellwagen Bank	28 Oct 1977	O. Brazier		"E"
0133	120	Stellwagen Bank	28 Oct 1977	O. Brazier		"F"
0134	127	Jeffreys Ledge	11 Jun 1978	P. Vickery		1,3*
0135	121	Jeffreys Ledge	11 Jun 1978	P. Vickery	15	7
0136	117	Jeffreys Ledge	11 Jun 1978	A. Busch		
0137	118	Off Provincetown, Mass.	03 Jun 1978	D. Larsen	1	2
0138	126	NW corner Stellwagen	17 Aug 1978	T. Leland		13A
0139	122	Stellwagen Bank	23 Aug 1978	T. Leland		23A
0140	120	Stellwagen Bank	30 Sep 1978	M. Williamson		8
0141 A	124	Stellwagen Bank	06 Sep 1978	T. Leland		17
0141 B	124	Stellwagen Bank	06 Sep 1978	T. Leland		15
0142	118	Stellwagen Bank	-- --- 1978	B. Wellman		
0143	117	Jeffreys Ledge	21 Oct 1978	S. Kraus	1	42
0144	122	Stellwagen Bank	21 Jul 1979	G. Nichols	1	20
0145 A	117	Old Scantum Ledge	06 May 1979	S. Katona	2	26
0145 B	117	Old Scantum Ledge	06 May 1979	S. Katona	1	10
0146	120	Off Nantucket Island, Mass.	11 May 1979	D. Goodale	1	21
0147	123	SW Corner of Stellwagen	12 May 1979	R. Sears	1	9
0148	127	Stellwagen Bank	-- --- 1979	C. Mayo		
0149	119	Stellwagen Bank	30 May 1979	Watkins/Moore		24
0150	126	Stellwagen Bank	-- --- 1979	C. Mayo		
0151	125	Stellwagen Bank	-- --- 1979	C. Mayo		
0152	118	N tip of Stellwagen Bank	02 Jun 1979	M. Williamson	2	11
0153	120	Stellwagen Bank	-- --- 1979	C. Mayo		
0154	125	Stellwagen Bank	17 May 1980	N. Ohde		
0155	117	W. Quoddy Head, Maine	26 Aug 1979	H. Guthrie		
0156	125	Jeffreys Ledge	21 Oct 1978	T. Keyser	1	43
0157	121	Stellwagen Bank	25 Apr 1979	Watkins/Moore		27
0158	123	Stellwagen Bank	-- --- ----	C. Mayo		
0159	117	Stellwagen Bank	-- --- ----	C. Mayo		
0160	121	Stellwagen Bank	-- --- ----	C. Mayo		
0161	125	Stellwagen Bank	-- --- ----	C. Mayo		
0162	118	Stellwagen Bank	-- --- ----	C. Mayo		



WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
0163	122	Stellwagen Bank	-- -- --	C. Mayo		
0164 A	119	42°10.1'N, 70°20.8'W	17 Oct 1979	CETAP		
0164 B	119	Stellwagen Bank	-- -- --	C. Mayo		
0165		VACANT				
0166		VACANT				
0167	122	Stellwagen Bank	-- -- --	C. Mayo		
0168	128	SW Corner of Stellwagen	09 Jun 1979	R. Sears	2	5
0169	128	Stellwagen Bank	-- -- --	C. Mayo		
0170		VACANT				
0171*						
0172		1 mile NE Block Is., RI	-- -- 1979	S. Marion	1	19
0173	123	Provincetown, Mass.	26 Aug 1979	R. Bradbury		6
0174	118	Off Provincetown, Mass.	21 Oct 1979	M. Weinrich		
0175	126	Stellwagen Bank	09 Jun 1979	A. Garnett		
0176		VACANT				
0177		VACANT				
0178 A	127		30 Aug 1977	P. Cohen		
0178 B	127	Stellwagen Bank	31 Aug 1977	J. Perkins	26-18	2
0179	120	Stellwagen Bank	-- -- --	C. Mayo		
0180 A	124	W. Quoddy Head, Maine	17 Aug 1979	S. Savage		
0180 B	124	W. Quoddy Head, Maine	17 Aug 1979	S. Savage		
0181	117	Halibut Point, Cape Ann, Mass.	15 Aug 1979	S. Mercer	N3	9
0182	117	41°25'N, 69°22.1'W	06 Aug 1979	P. Auster		
0183 A	119	41°25.6' N, 69°22.1' W	06 Aug 1979	P. Auster		
0183 B	119	41°25.6'N, 69°22.1'W	06 Aug 1979	P. Auster		
0184	119	Liverpool Bay, Nova Scotia	03 Apr 1980	P. Brodie		
0185	125	10-15 miles S. of Lynn, Mass.	03 May 1980	C. Harward		
0186	123	41°28.1'N, 69°20.3'W	21 Jun 1979	CETAP		
0187	123	42°07.7'N, 70°15.0'W	28 Oct 1979	C. Price		
0188	125	New Scantum Ledge	10 May 1980	S. Katona	1	14
0189	125	New Scantum Ledge	18 May 1980	S. Katona	4	2A
0190	123	Off Provincetown, Mass.	17 Oct 1979	M. Ratnaswami	886	
0191	124	Ipswich Bay, Mass.	17 Aug 1979	S. Mercer		
0192	124	Stellwagen Bank	26 Apr 1980	M. Weinrich		
0193	124	Stellwagen Bank	26 Apr 1980	M. Weinrich		
0194	120	Ipswich Bay, Mass.	22 Aug 1979	S. Mercer		
0195	120	Ipswich Bay, Mass.	30 Aug 1979	S. Mercer		
0196	123	Ipswich Bay, Mass.	17 Aug 1979	S. Mercer		
0197	127	W. Quoddy Head, Maine	-- Aug 1979	H. Guthrie	D1	26
0198	126	Mt. Desert Rock	08 Jul 1977	S. Kraus		23A
0199	128	Stellwagen Bank	31 May 1980	J. Gibbs		
0200	126	Old Scantum Ledge	09 Aug 1979	S. Mercer		
0201	129	Halibut Point, Cape Ann, Mass.	15 Aug 1979	S. Mercer		
0202 A	118	Mt. Desert Rock	-- Sep 1979	B. Bowman		
0203	127	SW Stellwagen Bank	03 Sep 1978	T. Ramage		
0204	129	Jeffreys Ledge	14 Sep 1976	O. Brazier	2	32
0205	128	Mt. Desert Rock	29 Jul 1976	S. Katona	3	28
0206	129	Casco Bay, Maine	04 Jul 1980	C. Haycock		
1001	92	Off Split Point, Nfld.	07 Jul 1978	H. Whitehead	17	36
1002	86	S of Split Point, Nfld.	07 Jul 1978	H. Whitehead	17	35
1003	95	Off Split Point, Nfld.	07 Jul 1978	H. Whitehead	17	18
1004	103	Off Split Point, Nfld.	07 Jul 1978	H. Whitehead	17	10
1005	108	Off Split Point, Nfld.	07 Jul 1978	H. Whitehead	17	24
1006	91	Off Split Point, Nfld.	07 Jul 1978	H. Whitehead	17	6
1007*						
1008*						
1009	88	Twillingate, Nfld.	27 Sep 1978	B. Baxter	13	13
1010	96	Baccalieu Tickle between Wall and Puffin Is., Nfld.	08 Jul 1978	H. Whitehead	18	33
1011	93	Mid Baccalieu Tickle, Nfld.	08 Jul 1978	H. Whitehead	20	12

WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1012	95	1.5 miles SE of Bay de Verde Head, Nfld.	07 Jul 1978	H. Whitehead	18	16
1013	105	Off Trinity, Nfld.	11 Sep 1979	P. Beamish	18	21
1014	92	S of Split Point, Nfld.	08 Jul 1978	H. Whitehead	18	30
1015	82	S of Worn's Cove, Nfld.	08 Jul 1978	H. Whitehead	18	27
1016*						
1017	106	Just N of the Wall, Nfld.	08 Jul 1978	H. Whitehead	20	7
1018	84	S of Baccalieu Tickle, Nfld.	09 Jul 1978	H. Whitehead	21	33
1019	97	Near the Wall, Nfld.	09 Sep 1978	H. Whitehead	20	35
1020	83	Near N end of Baccalieu Island, Nfld.	08 Jul 1978	H. Whitehead	20	18
1021	85	Baccalieu Tickle, Nfld.	-- Jul 1978	H. Whitehead	20	32
1022	108	Near S. Baccalieu, Nfld.	09 Jul 1978	H. Whitehead	21	6
1023	90	Salvage, Bonavista Bay, Nfld.	08 Aug 1979	J. Lien		
1024	97	Baccalieu Tickle, Nfld.	09 Jul 1978	H. Whitehead	21	24
1025	97	The Wall, Nfld.	17 Jun 1979	H. Whitehead	2	31
1026	96	Baccalieu Tickle, near S. Baccalieu Light, Nfld.	15 Jul 1978	H. Whitehead	28	22
1027*						
1028	100	S of Split Point, Nfld.	11 Jul 1978	H. Whitehead	22	10
1029	103	Off Split Point, Nfld.	11 Jul 1978	H. Whitehead	23	2
1030	98	Baccalieu Tickle near Split Point, Nfld.	11 Jul 1978	H. Whitehead	23	28
1031	90	Off Split Point, Nfld.	11 Jul 1978	H. Whitehead	23	12
1032*						
1033	96	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	25	6
1034	88	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	25	31
1035	108	Off Western Head, Nfld.	21 Aug 1978	H. Whitehead	52	28
1036	99	Deep Channel, Baccalieu Tickle, near S. Baccalieu Light, Nfld.	20 Jul 1978	H. Whitehead	37	9
1037	96	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	27	12
1038	84	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	27	11
1039	82	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	25	24
1040*						
1041*						
1042*						
1043	104	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	25	33
1044	97	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	26	17
1045	109	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	26	25
1046	88	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	26	26
1047	87	Deep Channel of Baccalieu Tickle, Nfld.	20 Jul 1978	H. Whitehead	35	33
1048	100	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	27	6
1049	91	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	26	34
1050	96	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	27	7
1051*						
1052	87	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	27	23
1053 A	106	0.75 miles S of Baccalieu Tickle, Nfld.	27 Jul 1978	H. Whitehead	42	21
1053 B	106	Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	32	12
1054	109	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	27	8
1055	91	Deep Channel of Baccalieu Tickle, near the Wall, Nfld.	15 Jul 1978	H. Whitehead	28	34
1056	93	Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	30	20
1057	86	Baccalieu Tickle, Nfld.	14 Jul 1978	H. Whitehead	28	2
1058	83	Deep Channel of Baccalieu Tickle, near the Wall, Nfld.	15 Jul 1978	H. Whitehead	28	29
1059	96	Off Split Point, Nfld.	07 Jul 1978	H. Whitehead	17	7
1060*						
1061	104	Off Bay de Verde Harbor, Nfld.	02 Jul 1978	H. Whitehead	11	35



WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME
1062	87	Baccalieu Tickle, Nfld.	08 Jul 1978	H. Whitehead	19 23
1063*					
1064*					
1065*					
1066*					
1067	101	Deep Channel of Baccalieu Tickle, Nfld.	23 Jul 1978	H. Whitehead	40 16
1068*					
1069	94	Near the Wall, Nfld.	15 Jul 1978	H. Whitehead	29 12
1070	108	S. Entrance, Baccalieu Tickle, Nfld.	15 Jul 1978	H. Whitehead	29 31
1071	103	S. Entrance, Baccalieu Tickle, Nfld.	15 Jul 1978	H. Whitehead	29 32
1072	96	E of N. Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	30 30
1073*					
1074*					
1075	85	Baccalieu Tickle, Nfld.	15 Jul 1978	H. Whitehead	29 5
1076	97	S. Entrance of Baccalieu Tickle, Nfld.	15 Jul 1978	H. Whitehead	29 34
1077	87	Baccalieu Tickle, Nfld.	15 Jul 1978	H. Whitehead	30 6
1078	105	S. Baccalieu, Nfld.	29 Jun 1979	H. Whitehead	16 21
1079*					
1080*					
1081	86	Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	32 19
1082*					
1083	109	Off Split Point, Nfld.	16 Jul 1978	H. Whitehead	30 24
1084	94	Deep Channel of Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	31 4
1085	96	Deep Channel of Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	31 8
1086	94	Deep Channel of Baccalieu Tickle, Nfld.	20 Jul 1978	H. Whitehead	36 6
1087	89	Salvage, Nfld.	16 Aug 1978	J. Perkins	26-97 26
1088*					
1089	91	1.5 miles SE of Baccalieu Tickle, Nfld.	07 Jul 1978	H. Whitehead	18 7
1090	82	Channel near Wall, Nfld.	15 Jul 1978	H. Whitehead	28 30
1091*					
1092	94	Deep Channel of Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	31 16
1093	102	Deep Channel of Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	31 18
1094	93	Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	31 20
1095	109	Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	31 30
1096*					
1097	92	Split Point, Nfld.	29 Jun 1979	H. Whitehead	13 8
1098	107	Off Torbay Point, Nfld.	12 Aug 1978	H. Whitehead	48 28
1101	108	Deep Channel of Baccalieu Tickle, Nfld.	02 Jul 1978	H. Whitehead	35 22
1102*					
1103	91	Deep Channel of Baccalieu Tickle, Nfld.	17 Jul 1978	H. Whitehead	33 31
1104	97	Baccalieu Tickle, Nfld.	02 Jul 1978	H. Whitehead	35 23
1105	95	Baccalieu Tickle, Nfld.	17 Jul 1978	H. Whitehead	33 21
1106	88	Deep Channel of Baccalieu Tickle, Nfld.	17 Jul 1978	H. Whitehead	33 16
1107	95	Deep Channel of Baccalieu Tickle, Nfld.	20 Jul 1978	H. Whitehead	36 26
1108*					
1109*					

WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME
1110	94	2 mi. S of Split Point, Nfld.	28 Jul 1978	H. Whitehead	43 16
1111	100	Baccalieu Tickle, Nfld.	16 Jul 1978	H. Whitehead	33 3
1112*					
1113*					
1114	93	Deep Channel of Baccalieu Tickle, Nfld.	20 Jul 1978	H. Whitehead	35 9
1115	87	Deep Channel of Baccalieu Tickle, Nfld.	20 Jul 1978	H. Whitehead	36 19
1116	109	Baccalieu Tickle, Nfld.	20 Jul 1978	H. Whitehead	36 28
1117	91	Baccalieu Tickle, Nfld.	20 Jul 1978	H. Whitehead	35 28
1118	108	0.75 miles S Puffin Island, Nfld.	20 Jul 1978	H. Whitehead	36 24
1119	89	Split Point Cove, Nfld.	03 Jul 1979	H. Whitehead	20 28
1120	89	Near S. Baccalieu Light, Nfld.	20 Jul 1978	H. Whitehead	37 11
1121	108	Deep Channel of Baccalieu Tickle near S. Baccalieu Light, Nfld.	20 Jul 1978	H. Whitehead	31 1
1122*					
1123	91	Deep Channel of Baccalieu Tickle, Nfld.	22 Jul 1978	H. Whitehead	38 27
1124	97	Baccalieu Tickle, Nfld.	22 Jul 1978	H. Whitehead	38 31
1125*					
1126*					
1127	86	Deep Channel of Baccalieu Tickle, Nfld.	22 Jul 1978	H. Whitehead	39 6
1128	103	Baccalieu Tickle, Nfld.	22 Jul 1978	H. Whitehead	39 16
1129	102	7 miles S of S. Baccalieu, Nfld.	27 Jul 1978	H. Whitehead	42 10
1130	85	Near Daniel's Cove, Nfld.	05 Aug 1978	H. Whitehead	45 6
1131	92	0.75 miles S of Baccalieu Tickle, Nfld.	27 Jul 1978	H. Whitehead	42 19
1132	84	S of Mid Baccalieu Tickle, Nfld.	27 Jul 1978	H. Whitehead	42 17
1133	90	0.75 miles S of Baccalieu Tickle, Nfld.	27 Jul 1978	H. Whitehead	42 20
1134	106	S of Baccalieu Island, Nfld.	27 Jul 1978	H. Whitehead	42 35
1135	82	8 miles SW of S. Baccalieu Light, Nfld.	22 Jul 1978	H. Whitehead	42 24
1136	88	8 miles SW of S. Baccalieu Light, Nfld.	27 Jul 1978	H. Whitehead	42 26
1137	93	8 miles SW of S. Baccalieu Light, Nfld.	27 Jul 1978	H. Whitehead	42 30
1138	87	0.75 miles S of Baccalieu Tickle, Nfld.	22 Jul 1978	H. Whitehead	42 22
1139	106	Baccalieu Tickle, Nfld.	13 Jul 1978	H. Whitehead	24 16
1140	89	Baccalieu Tickle, Nfld.	13 Jul 1978	H. Whitehead	24 23
1141	100	Baccalieu Tickle, Nfld.	13 Jul 1978	H. Whitehead	24 28
1142	104	SW Baccalieu Tickle, Nfld.	27 Jul 1978	H. Whitehead	41 26
1143	94	NE of Baccalieu Island, Nfld.	01 Aug 1978	H. Whitehead	44 15
1144	109	Off S. Deep Channel, Bac- calieu Tickle, Nfld.	28 Jul 1978	H. Whitehead	43 26
1145*					
1146*					
1147	88	SE of Baccalieu, Nfld.	01 Aug 1978	H. Whitehead	44 5
1148	100	NE of Baccalieu, Nfld.	01 Aug 1978	H. Whitehead	44 13
1149	96	S. Baccalieu Tickle, Nfld.	31 Jul 1979	H. Whitehead	53 15
1150	85	NNE Baccalieu Island, Nfld.	01 Aug 1978	H. Whitehead	44 24
1151	95	NE of Baccalieu Island, Nfld.	01 Aug 1978	H. Whitehead	44 27
1152*					



WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1153*						
1154*						
1155		5 mi. NNE Baccalieu, Nfld.	01 Aug 1978	H. Whitehead	44	22
1156	105	Off Bull Gulch, Nfld.	06 Aug 1978	H. Whitehead	45	33
1157	90	Off Greenspond, Bonavista	11 Aug 1979	H. Whitehead	60	15
1158	93	NW of Perlican, Nfld.	06 Aug 1978	H. Whitehead	45	29
1159	94	Off Old Perlican, Nfld.	06 Aug 1978	H. Whitehead	45	23
1160	82	Off Old Perlican, Nfld.	05 Aug 1978	H. Whitehead	45	13
1161	55	Off Old Perlican, Nfld.	05 Aug 1978	H. Whitehead	45	11
1162	91	Off Old Perlican, Nfld.	06 Aug 1978	H. Whitehead	45	21
1163*						
1164	108	Off Bay de Verde Head, Nfld.	08 Aug 1978	H. Whitehead	46	18
1165	85	Bay de Verde Head, Nfld.	08 Aug 1978	H. Whitehead	46	14
1166	87	Deep Channel of Baccalieu Tickle, Nfld.	08 Aug 1978	H. Whitehead	46	21
1167	96	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	26
1168	105	Off Bay de Verde Harbor, Nfld.	09 Aug 1978	H. Whitehead	46	26
1169	104	Deep Channel of Baccalieu Tickle, Nfld.	08 Aug 1978	H. Whitehead	46	22
1170	92	Off Bay de Verde, Nfld.	09 Aug 1978	H. Whitehead	47	18
1171	99	SE of Bay de Verde Head, Nfld.	09 Aug 1978	H. Whitehead	47	8
1172*						
1173*						
1174	93	Off Black Head, Nfld.	13 Aug 1978	H. Whitehead	49	2
1175	94	S of Mouldy Point, Nfld.	09 Aug 1978	H. Whitehead	47	27
1176	104	Off Split Point, Nfld.	09 Aug 1978	H. Whitehead	48	13
1177	85	N of Baccalieu Island, Nfld.	13 Jun 1978	H. Whitehead	2	16
1178 A	82	N of Baccalieu Island, Nfld.	13 Jun 1978	H. Whitehead	2	31
1178 B	82	N of Baccalieu Island, Nfld.	13 Jun 1978	H. Whitehead	2	25
1179	85	N of Baccalieu Island, Nfld.	13 Jun 1978	H. Whitehead	2	20
1180*						
1181	85	S of Split Point, Nfld.	16 Jun 1978	H. Whitehead	3	1
1182 A	93	N of Grates Point, Nfld.	17 Jun 1978	H. Whitehead	3	25
1182 B	93	N of Grates Point, Nfld.	17 Jun 1978	H. Whitehead	3	26
1183*						
1184	95	Off Bay de Verde Harbor, Nfld.	23 Jun 1978	H. Whitehead	5	26
1185	95	Off Bay de Verde Harbor, Nfld.	23 Jun 1978	H. Whitehead	5	24
1186	95	Off Bay de Verde Harbor, Nfld.	23 Jun 1978	H. Whitehead	5	25
1187	90	S. Baccalieu Light, Nfld.	27 Jun 1978	H. Whitehead	8	22
1188	105	Near Wall, Bay de Verde, Nfld.	29 Jun 1978	H. Whitehead	8	0
1189*						
1190	97	On W Edge of Wall, Nfld.	30 Jun 1978	H. Whitehead	9	9
1191*						
1192	83	The Wall, Bay de Verde, Nfld.	18 Jun 1978	H. Whitehead	3	15
1193*						
1194	84	SE of Split Point, Nfld.	30 Jun 1978	H. Whitehead	10	34
1195	94	SE of Split Point, Nfld.	30 Jun 1978	H. Whitehead	10	33
1196	88	NE of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	27	27
1197	107	Off Split Point, Nfld.	30 Jun 1978	H. Whitehead	10	7
1204		VACANT				
1205	88	Backside, Nfld.	03 Jul 1978	H. Whitehead	12	29
1206	105	S of Baccalieu Island, Nfld.	04 Jul 1978	H. Whitehead	13	13
1207	82	E of Pryor's Ledge, Nfld.	05 Jul 1978	H. Whitehead	15	26
1208	104	Near Pryor's Ledge, Nfld.	05 Jul 1978	H. Whitehead	15	34
1209	97	Off Cow Point, Nfld.	05 Jul 1978	H. Whitehead	15	19
1210		VACANT				
1211*						
1212*						
1213	109	Off Cow Point, Nfld.	05 Jul 1978	H. Whitehead	15	18
1214*						
1215	87	Near Pryor's Rock, Nfld.	05 Jul 1978	H. Whitehead	15	31

WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1216	95	Off Cow Point, Nfld.	05 Jul 1978	H. Whitehead	15	33
1217	94	Off Bay de Verde Harbor, Nfld.	07 Jul 1978	H. Whitehead	16	14
1218	107	Off Bay de Verde Harbor, Nfld.	07 Jul 1978	H. Whitehead	16	17
1219	108	Off Bay de Verde Harbor, Nfld.	07 Jul 1978	H. Whitehead	16	18
1220	85	Off Bay de Verde Harbor, Nfld.	07 Jul 1978	H. Whitehead	16	26
1221 A	86	Off Bay de Verde Harbor, Nfld.	07 Jul 1978	H. Whitehead	16	19
1221 B	86	Off Red Head, Nfld.	29 Jun 1979	H. Whitehead	14	23
1222	97	Off Bay de Verde Harbor, Nfld.	07 Jul 1978	H. Whitehead	16	12
1223	99	Off Salvage, Nfld.	18 Aug 1979	H. Whitehead	55	16
1229	98	Off Capelin Cove, Nfld.	05 Jul 1978	H. Whitehead	14	14
1230	93	Off Capelin Cove, Nfld.	05 Jul 1978	H. Whitehead	14	30
1231	95	Bonavista Bay, Nfld.	Summer 1979	M. Rosen		
1232	98	Off Capelin Cove, Nfld.	05 Jul 1978	H. Whitehead	14	18
1233	109	Off Capelin Cove, Nfld.	05 Jul 1978	H. Whitehead	14	29
1234	105	St. Mary's Bay, Nfld.	17 Jul 1978	P. Beamish	5	*
1235	100	St. Mary's Bay, Nfld.	17 Jul 1978	J. Hyman	3	*
1236	92	St. Mary's Bay, Nfld.	17 Jul 1978	J. Hyman	1	*
1237	92	Trinity Bay, Nfld.	12 Jul 1978	P. Beamish	251	27
1238	91	Trinity Bay, Nfld.	13 Jul 1978	P. Beamish	253	24
1239	100	Trinity Bay, Nfld.	13 Jul 1978	P. Beamish	252	27
1240	84	Trinity Bay, Nfld.	13 Jul 1978	P. Beamish	252	4
1241	101	Trinity Bay, Nfld.	12 Jul 1978	P. Beamish	251	25
1242	91	Trinity Bay, Nfld.	12 Jul 1978	P. Beamish	251	23
1243	88	Twillingate, Nfld.	27 Sep 1978	B. Baxter	T3	16
1244 A	104	Twillingate, Nfld.	27 Sep 1978	B. Baxter	T2	13
1244 B	104	Twillingate, Nfld.	27 Sep 1978	B. Baxter	T4	11
1245	82	Twillingate, Nfld.	27 Sep 1978	B. Baxter	T3	19
1246	103	Hall's Bay, Nfld.	-- Apr 1978	P. Beamish	210	18
1247	103	Hall's Bay, Nfld.	Mar-Apr 1978	J. Lien/B. Merdsoy		
1248 A	101	Hall's Bay, Nfld.	-- Mar 1978	P. Beamish	214	33
1248 B	101	Hall's Bay, Nfld.	-- Mar 1978	P. Beamish	213	28
1249		VACANT				
1250	114	Off Baccalieu Island, Nfld.	05 Jul 1977	P. Cohen		
1251	115	Elliston Harbor, Nfld.	05 Jul 1977	P. Cohen		
1252	111	Off Elliston Harbor, Nfld.	05 Jul 1977	P. Cohen		
1253	112	Off Elliston Harbor, Nfld.	05 Jul 1977	P. Cohen		
1254 A	112	Hawkes Harbor, Lab.	28 Jul 1977	JP/HPW	25-88	25
1254 B	112	Hawkes Harbor, Lab.	28 Jul 1977	JP/HPW	25-88	26
1255	113	Twillingate, Nfld.	09 Jul 1977	JP/HPW	26-07	4
1256	113	Trinity Bay, Nfld.	13 Aug 1977	JP/HPW	26-08	8A
1257 A	113	Trinity Bay, Nfld.	13 Aug 1977	JP/HPW	26-07	31
1257 B	113	Trinity Bay, Nfld.	13 Aug 1977	JP/HPW	26-08	11
1258	113	Trinity Bay, Nfld.	13 Aug 1977	JP/HPW	26-08	19A
1259	114	Cape Bonavista, Nfld.	12 Aug 1977	JP/HPW	26-07	25
1260	110	Twillingate, Nfld.	09 Aug 1977	JP/HPW	26-06	9
1261	110	Trinity Bay, Nfld.	05 Jul 1977	JP/P. Cohen	PC6	
1262	112	Belle Isle, Nfld.	13 Jul 1977	JP/HPW	26-00	5
1263	114	Deep Channel, Bacc. Tickle	22 Jul 1978	H. Whitehead	39	33
1264	113	Trinity Bay, Nfld.	12 Aug 1977	JP/HPW	26-18	35
1265	115	Tadoussac, Quebec	15 Aug 1972	P. Beamish	7	4
1266 A	110	Trinity Bay, Nfld.	13 Aug 1977	JP/HPW	26-08	14A
1266 B	110	Trinity Bay, Nfld.	13 Aug 1977	JP/HPW	26-08	18A
1267	110	St. Jones Within, Nfld.	07 Nov 1978	J. Lien/B. Merdsoy		
1268	110	Belle Isle, Nfld.	13 Jul 1977	JP/HPW	25-99	15A
1269	111	Halls Bay, Nfld.	Mar-Apr 1978	J. Lien		



WHALE

NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1270	111	Halls Bay, Nfld.	Mar-Apr 1978	J. Lien		
1271	113	Halls Bay, Nfld.	Mar-Apr 1978	J. Lien		
1300	103	Off Black Head, Nfld.	13 Aug 1978	H. Whitehead	48	35
1301	104	1 mile E of Black Head, Nfld.	13 Aug 1978	H. Whitehead	48	34
1302	107	Off Torbay Pt., Nfld.	12 Aug 1978	H. Whitehead	48	31
1303	83	Off Black Head, Nfld.	13 Aug 1978	H. Whitehead	49	8
1304	83	S. Deep Channel, Baccalieu Tickle, Nfld.	13 Aug 1978	H. Whitehead	49	21
1305	99	Deep Channel, Baccalieu Tickle, Nfld.	13 Aug 1978	H. Whitehead	40	18
1306		VACANT				
1307	99	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	9
1308	99	S. Deep Channel of Bac- calieu Tickle, Nfld.	13 Aug 1978	H. Whitehead	49	26
1309	107	S. Deep Channel of Bac- calieu Tickle, Nfld.	13 Aug 1978	H. Whitehead	49	23
1310	84	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	4
1311*						
1312*						
1313*						
1314	101	Off Baccalhao Island, Nfld.	14 Aug 1978	H. Whitehead	50	3
1315	87	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	5
1316	99	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	6
1317	101	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	7
1318	106	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	11
1319	103	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	13
1320*						
1321*						
1322	98	Off Twillingate, Nfld.	21 Aug 1978	H. Whitehead	51	22
1323	105	N of Moreton's Harbor, Nfld.	21 Aug 1978	H. Whitehead	51	28
1324	84	N of Moreton's Harbor, Nfld.	21 Aug 1978	H. Whitehead	51	26
1325	106	NW of Twillingate, Nfld.	21 Aug 1978	H. Whitehead	51	24
1326	105	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	21
1327	86	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	22
1328	102	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	25
1329	90	Off Twillingate, Nfld.	21 Aug 1978	H. Whitehead	51	11
1330	106	Off Moreton's Harbor, Nfld.	21 Aug 1978	H. Whitehead	51	32
1331	102	Off Cow Point, Nfld.	01 Jul 1979	H. Whitehead	17	32
1332	107	Off Black Island, Nfld.	22 Aug 1978	H. Whitehead	53	2
1333	109	Off Baccalhao, Nfld.	14 Aug 1978	H. Whitehead	50	23
1334	105	Salvage, Nfld.	08 Aug 1979	H. Whitehead	56	3
1335	90	Off Twillingate, Nfld.	21 Aug 1978	H. Whitehead	51	18
1336	99	Off Twillingate, Nfld.	21 Aug 1978	H. Whitehead	51	14
1337	89	Off Twillingate, Nfld.	21 Aug 1978	H. Whitehead	51	10
1338	87	Off Batteau, Nfld.	02 Sep 1978	H. Whitehead	55	33
1339	101	Off Twillingate, Nfld.	21 Aug 1978	H. Whitehead	51	9
1340	98	Off Twillingate, Nfld.	20 Aug 1978	H. Whitehead	51	4
1341*						
1342*						
1343		Off Western Head, Nfld.	21 Aug 1978	H. Whitehead	52	28
1344	107	Off Western Head, Nfld.	21 Aug 1978	H. Whitehead	52	26
1345	107	Off Moreton's Harbor, Nfld.	21 Aug 1978	H. Whitehead	52	13
1346	89	Off Western Head, Nfld.	21 Aug 1978	H. Whitehead	52	25
1347	92	Off Western Head, Nfld.	21 Aug 1978	H. Whitehead	52	24
1348	92	Off Moreton's Harbor, Nfld.	21 Aug 1978	H. Whitehead	52	16
1349	106	Off Moreton's Harbor, Nfld.	21 Aug 1978	H. Whitehead	52	9
1350	88	Off Black Island, Nfld.	22 Aug 1978	H. Whitehead	53	5
1351	101	Off Moreton's Harbor, Nfld.	21 Aug 1978	H. Whitehead	52	16
1352	92	Off Western Head, Nfld.	21 Aug 1978	H. Whitehead	52	27
1353	98	Off Englee, Nfld.	26 Aug 1978	H. Whitehead	53	28
1354	104	Off Englee, Nfld.	26 Aug 1978	H. Whitehead	53	27

WHALE							
NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME		
1355	83	Off Occasional Harbor, Lab.	31 Aug 1978	H. Whitehead	53	34	
1356	89	Off Occasional Harbor, Lab.	31 Aug 1978	H. Whitehead	53	31	
1357	83	Off Fortune Harbor, Nfld.	22 Aug 1978	H. Whitehead	53	10	
1358	98	Off Occasional Harbor, Lab.	31 Aug 1978	H. Whitehead	53	33	
1359	99	Off Englee, Nfld.	26 Aug 1978	H. Whitehead	53	23	
1360	83	Off Cape St. John, Nfld.	23 Aug 1978	H. Whitehead	53	18	
1361*							
1362*							
1363	109	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	25	
1364	90	Off Cape Bluff, Lab.	02 Sep 1978	H. Whitehead	56	14	
1365	100	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	27	
1366	103	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	26	
1367	100	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	8	
1368	99	Off S. Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	25	32	
1369	84	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	24	
1370	102	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	25	
1371	98	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	16	
1372	84	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	23	
1373	83	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	21	
1374	82	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	23	
1375	98	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	35	
1376	89	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	15	
1377	89	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	17	
1378	86	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	22	
1379	86	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	33	
1380	102	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	54	35	
1381	98	Off Venison Tickle, Lab.	01 Sep 1978	H. Whitehead	54	11	
1382		VACANT					
1383	90	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	18	
1384	103	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	22	
1385	107	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	17	
1386	106	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	6	
1387	102	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	55	2	
1388	90	Off Cooper Is., Lab.	02 Sep 1978	H. Whitehead	56	9	
1389		VACANT					
1390	89	Off Salvage, Bonavista Bay, Nfld.	09 Aug 1979	J. Lien (Paul)	1		
1391	86	Off Spear Point, Lab.	04 Sep 1978	H. Whitehead	56	33	
1392	102	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	56	1	
1393	83	Off Spear Point, Lab.	04 Sep 1978	H. Whitehead	56	29	
1394	101	Off Spear Point, Lab.	04 Sep 1978	H. Whitehead	56	31	
1395		VACANT					
1396	101	Off Cape Bluff, Lab.	02 Sep 1978	H. Whitehead	56	17	
1397	102	Off Spear Point, Lab.	04 Aug 1978	H. Whitehead	56	27	
1398	102	Off Cooper Is., Lab.	02 Sep 1978	H. Whitehead	56	7	
1399	100	Off Cape Bluff, Lab.	02 Sep 1978	H. Whitehead	56	15	
1400	108	Off Cape Bluff, Lab.	02 Sep 1978	H. Whitehead	56	18	
1401	107	Off Batteau, Lab.	02 Sep 1978	H. Whitehead	56	4	
1501	37	Off Puffin Island, Nfld.	18 Jun 1979	H. Whitehead	5	2	
1502	39	Split Point, Nfld.	26 Jun 1979	H. Whitehead	11	24	
1503	43	Deep Channel, Baccalieu Tickle, Nfld.	20 Jun 1979	H. Whitehead	5	19A	
1504	63	Split Point, Nfld.	17 Jun 1979	H. Whitehead	3	2	
1505	65	Off Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	66	6	
1506	59	The Wall, Bay de Verde, Nfld.	16 Jun 1979	H. Whitehead	2	18	
1507	70	Backside, Nfld.	21 Jun 1979	H. Whitehead	6	35	
1508	78	Deep Channel, Baccalieu Tickle, Nfld.	20 Jun 1979	H. Whitehead	5	7	
1509	77	NW Baccalieu, Nfld.	20 Jun 1979	H. Whitehead	5	29	
1510	76	Split Point, Nfld.	18 Jun 1979	H. Whitehead	4	34	
1511	76	Split Point, Nfld.	29 Jun 1979	H. Whitehead	13	12	
1512*							
1513*							



WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1514 *						
1515*						
1516	60	E. Split Point, Nfld.	25 Jun 1979	H. Whitehead	10	12
1517	55	On the Wall, Nfld.	25 Jun 1979	H. Whitehead	9	28
1518	64	Grates and Red Head, Nfld.	22 Jun 1979	H. Whitehead	9	2
1519	58	Off Backside, Nfld.	24 Jun 1979	H. Whitehead	9	11
1520	52	Off Split Point, Nfld.	25 Jun 1979	H. Whitehead	10	30
1521*						
1522*						
1523*						
1524	41	SW Split Point, Nfld.	26 Jun 1979	H. Whitehead	11	29
1525		VACANT				
1526	77	Split Point, Nfld.	05 Jul 1979	H. Whitehead	22	36
1527	65	Off Red Head, Nfld.	22 Jun 1979	H. Whitehead	8	15
1528	44	Red Head, Nfld.	22 Jun 1979	H. Whitehead	7	22
1529	57	Red Head, Nfld.	22 Jun 1979	H. Whitehead	7	29
1530	55	Red Head, Nfld.	22 Jun 1979	H. Whitehead	8	18
1531*						
1532*						
1533*						
1534	46	Deep Channel, Baccalieu Tickle, Nfld.	20 Jun 1979	H. Whitehead	5	10
1535	55	Split Point, Nfld.	30 Jun 1979	H. Whitehead	17	12
1536	66	Split Point, Nfld.	29 Jun 1979	H. Whitehead	16	4
1537	40	Off Red Head Cove, Nfld.	29 Jun 1979	H. Whitehead	14	30
1538	52	Wall of Baccalieu Tickle, Nfld.	29 Jun 1979	H. Whitehead	13	31
1539 A	42	Off Friday Point Cove, Nfld.	29 Jun 1979	H. Whitehead	14	2
1539 B	42	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	28	36
1540	62	Split Point, Nfld.	29 Jun 1979	H. Whitehead	16	5
1541	55	Off Friday Point Cove, Nfld.	29 Jun 1979	H. Whitehead	14	5
1542		VACANT				
1543	45	Off Red Head Cove, Nfld.	29 Jun 1979	H. Whitehead	14	33
1544	78	Off Friday Point Cove, Nfld.	29 Jun 1979	H. Whitehead	14	26
1545*						
1546*						
1547*						
1548*						
1549*						
1550*						
1551		Off Friday Point, Nfld.	29 Jun 1979	H. Whitehead	14	28
1552	40	Red Head, Nfld.	29 Jun 1979	H. Whitehead	15	4
1553	52	Split Point, Nfld.	29 Jun 1979	H. Whitehead	15	17
1554 A	42	Salvage, Bonavista Bay, Nfld.	26 Aug 1979	J. Perkins	27-02	19
1554 B	42	Split Point, Nfld.	28 Jun 1979	H. Whitehead	15	32
1555	50	Split Point, Nfld.	29 Jun 1979	H. Whitehead	17	7
1556	68	Red Head, Nfld.	29 Jun 1979	H. Whitehead	15	2
1557	41	Red Head Point, Nfld.	29 Jun 1979	H. Whitehead	15	3
1558	66	S. Baccalieu, Nfld.	29 Jun 1979	H. Whitehead	16	26
1559	56	E of N. Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	30	33
1560	57	S. Baccalieu, Nfld.	29 Jun 1979	H. Whitehead	16	31
1561	66	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	39	21
1562	78	Split Point, Nfld.	29 Jun 1979	H. Whitehead	16	34
1563*						
1564*						
1565*						
1566	56	Split Point, Nfld.	04 Jul 1979	H. Whitehead	21	21
1567	48	Off Capelin Cove, Nfld.	01 Jul 1979	H. Whitehead	18	2

WHALE

NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1568	63	Split Point, Nfld.	29 Jun 1979	H. Whitehead	17	9
1569	62	Off Capelin Cove, Nfld.	01 Jul 1979	H. Whitehead	18	4
1570	65	Split Point, Nfld.	02 Jul 1979	H. Whitehead	19	24
1571	38	E of Baccalieu Island, Nfld.	15 Jul 1979	H. Whitehead	33	19
1572	39	Split Point, Nfld.	04 Jul 1979	H. Whitehead	21	35
1573	77	E. Baccalieu, Nfld.	01 Jul 1979	H. Whitehead	18	32
1574	55	Split Point, Nfld.	02 Jul 1979	H. Whitehead	19	30
1575	63	Off S. Baccalieu, Nfld.	01 Jul 1979	H. Whitehead	18	22
1576	55	Split Point, Nfld.	05 Jul 1979	H. Whitehead	22	10
1577	80	Bay de Verde Head, Nfld.	03 Jul 1979	H. Whitehead	20	7
1578*						
1579		Trinity Bay, Nfld.	21 Jun 1979	W. Rossiter		3A
1580	58	Trinity Bay, Nfld.	20 Jun 1979	W. Rossiter		7A
1581	81	Trinity Bay, Nfld.	21 Jun 1979	D. Larsen	1	11
1582	69	Trinity, New Horse Chops, Nfld.	16 Jul 1979	P. Beamish	306	18
1583	50	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	28	12
1584	42	NE of Baccalieu, Nfld.	09 Jul 1979	H. Whitehead	25	20
1585	64	S of Split Point, Nfld.	11 Jul 1979	H. Whitehead	27	2
1586	59	Off E. Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	27	18
1587	54	SE of Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	26	1
1588	63	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	28	30
1589	75	E of N. Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	30	34
1590	73	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	28	6
1591	54	NE of Baccalieu, Nfld.	09 Jul 1979	H. Whitehead	25	24
1592	52	E of Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	26	4
1593	57	E of Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	26	7
1594	56	E of Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	26	5
1595	48	NE of Baccalieu, Nfld.	09 Jul 1979	H. Whitehead	25	18
1596	71	E of Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	26	3
1597	81	Deep Channel of Baccalieu Tickle, Nfld.	09 Jul 1979	H. Whitehead	25	14
1598	37	E of Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	26	6
1599	37	NE of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	30	13
1600	39	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	29	28
1601	54	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	29	17
1602	54	Off Trinity, Nfld.	11 Sep 1979	P. Beamish		
1603	56	N of Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	26	16
1604	57	E of N. Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	30	16
1605	71	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	29	11
1606	67	Newman Sound, Nfld.	24 Aug 1979	T. Horn		
1607	65	E of N. Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	30	25
1608 A	56	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	29	24
1608 B	56	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	29	18
1609	70	Off S. Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	30	2
1610	72	Off Breakheart Point, Nfld.	14 Jul 1979	H. Whitehead	29	32
1611	72	Trinity, Nfld.	25 Jul 1979	G. Tatum		
1612	74	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32	9
1613		VACANT				
1614	51	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	29	2
1615	52	N of Baccalieu, Nfld.	12 Jul 1979	H. Whitehead	29	22
1616	47	E of Baccalieu, Nfld.	10 Jul 1979	H. Whitehead	26	15
1617	64	N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32	7
1618	48	N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	31	14
1619	62	Off Little Denier, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	57	32
1620	69	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32	8
1621	38	N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	31	32
1622	73	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32	30
1623	66	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32	1
1624	48	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead		



WHALE

NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME
1625	73	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	31 34
1626	37	E of Baccalieu, Nfld.	15 Jul 1979	H. Whitehead	33 22
1627	44	S of Split Point, Nfld.	16 Jul 1979	H. Whitehead	33 32
1628	45	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32 28
1629	55	N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	33 12
1630	53	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32 32
1631	50	E of Baccalieu, Nfld.	15 Jul 1979	H. Whitehead	33 18
1632	64	N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	33 11
1633	54	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32 21
1634	51	E of the Wall, Nfld.	16 Jul 1979	H. Whitehead	35 6
1635	65	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32 19
1636		VACANT			
1637	67	E of Wall, Nfld.	16 Jul 1979	H. Whitehead	36 1
1638	68	E of Wall, Nfld.	16 Jul 1979	H. Whitehead	35 18
1639	75	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32 34
1640	75	E of Baccalieu, Nfld.	15 Jul 1979	H. Whitehead	33 26
1641	76	E of Wall, Nfld.	16 Jul 1979	H. Whitehead	35 11
1642	75	E of Baccalieu, Nfld.	16 Jul 1979	H. Whitehead	35 3
1643	79	2 miles N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	32 33
1644 A	38	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 12
1644 B	38	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	37 32
1645	51	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	39 20
1646	42	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	37 7
1647	60	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	39 23
1648	37	E of Baccalieu, Nfld.	18 Jul 1979	H. Whitehead	40 10
1649	37	Off Bay de Verde Head, Nfld.	21 Jul 1979	H. Whitehead	43 15
1650	41	Off Bay de Verde Head, Nfld.	21 Jul 1979	H. Whitehead	42 31
1651	40	Off S. Baccalieu, Nfld.	18 Jul 1979	H. Whitehead	42 2
1652	44	Off Bay de Verde Head, Nfld.	21 Jul 1979	H. Whitehead	43 32
1653	54	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	37 10
1654	49	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	55 5
1655	46	E of Baccalieu, Nfld.	18 Jul 1979	H. Whitehead	40 11
1656	45	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	38 27
1657	47	Off Bay de Verde Head, Nfld.	21 Jul 1979	H. Whitehead	43 34
1658	53	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	39 15
1659	49	Off Bay de Verde Head, Nfld.	21 Jul 1979	H. Whitehead	42 30
1660	49	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	39 12
1661	49	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	39 19
1662	65	E of Baccalieu, Nfld.	21 Jul 1979	H. Whitehead	40 14
1663	50	E of Baccalieu, Nfld.	18 Jul 1979	H. Whitehead	41 15
1664	50	Near Salvage, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	58 9
1665	59	E of S. Baccalieu, Nfld.	18 Jul 1979	H. Whitehead	41 28
1666	74	Off Bay de Verde Head, Nfld.	21 Jul 1979	H. Whitehead	42 33
1667	73	Off Split Point Cove, Nfld.	20 Jul 1979	H. Whitehead	42 29
1668	75	Off Bay de Verde Head, Nfld.	21 Jul 1979	H. Whitehead	43 7
1669	73	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	38 12
1670	76	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	39 10
1671	72	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	39 7
1672	77	E of N. Baccalieu Light, Nfld.	17 Jul 1979	H. Whitehead	37 18
1673	79	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	38 11
1674	75	E of Baccalieu, Nfld.	17 Jul 1979	H. Whitehead	38 5
1675	78	Salvage, Bonavista Bay, Nfld.	09 Aug 1979	J. Lien	
1676	77	Salvage, Bonavista Bay, Nfld.	18 Jul 1979	J. Lien	
1677	76	Salvage, Bonavista Bay, Nfld.	18 Jul 1979	J. Lien	
1678	60	SE of Split Point, Nfld.	21 Jul 1979	H. Whitehead	47 14
1679	60	Off Arch Tickle, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	57 5
1680	52	Salvage, Bonavista Bay, Nfld.	18 Jul 1979	J. Lien	
1681	45	Off Council Cove, Nfld.	30 Jul 1979	H. Whitehead	52 20
1682	63	Off S. Baccalieu, Nfld.	31 Jul 1979	H. Whitehead	53 2

WHALE

NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1683	70	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	56	20
1684	64	Salvage, Bonavista Bay, Nfld.	19 Jul 1979	J. Lien		
1685	69	Square Island, Lab.	24 Aug 1979	H. Whitehead	66	23
1686	56	Salvage, Bonavista Bay, Nfld.	08 Aug 1979	J. Lien		
1687	41	Salvage, Nfld.	08 Aug 1979	J. Lien		
1688	72	Salvage, Nfld.	09 Aug 1979	J. Lien		
1689	64	Salvage, Nfld.	18 Jul 1979	J. Lien		
1690	46	Salvage, Nfld.	18 Jul 1979	J. Lien		
1691		Salvage, Nfld.	08 Aug 1979	J. Lien		XX2
1692	53	Salvage, Nfld.	09 Aug 1979	J. Lien (Paul)	1	
1693	38	Salvage, Nfld.	19 Jul 1979	J. Lien		
1694	38	Salvage, Nfld.	08 Aug 1979	J. Lien		
1695	46	Salvage, Nfld.	08 Aug 1979	J. Lien		XX1
1696		VACANT				
1697	43	Salvage, Nfld.	19 Jul 1979	J. Lien		
1698	44	Salvage, Nfld.	09 Aug 1979	J. Lien		
1699	39	Salvage, Nfld.	19 Aug 1979	J. Lien (Paul)	2	XX1
1700	51	Salvage, Nfld.	08 Aug 1979	J. Lien		
1701	61	Salvage, Nfld.	19 Jul 1979	J. Lien		XX1
1702	38	Salvage, Nfld.	19 Jul 1979	J. Lien		
1703	40	W of Baccalieu, Nfld.	21 Jul 1979	H. Whitehead	48	24
1704	43	W of S. Baccalieu, Nfld.	21 Jul 1979	H. Whitehead	48	19
1705		VACANT				
1706	46	W of S. Baccalieu, Nfld.	23 Jul 1979	H. Whitehead	49	1
1707	42	W of S. Baccalieu, Nfld.	23 Jul 1979	H. Whitehead	49	7
1708	45	S of S. Baccalieu, Nfld.	21 Jul 1979	H. Whitehead	48	9
1709	43	Off Split Point, Nfld.	21 Jul 1979	H. Whitehead	45	12
1710	51	Off Split Point, Nfld.	21 Jul 1979	H. Whitehead	46	35
1711	69	Off Split Point, Nfld.	21 Jul 1979	H. Whitehead	48	15
1712	55	Off Split Point, Nfld.	21 Jul 1979	H. Whitehead	45	3
1713	51	Deep Channel of Baccalieu Tickle, Nfld.	27 Jul 1979	H. Whitehead	50	30
1714	47	Off S. Baccalieu Tickle, Nfld.	25 Jul 1979	H. Whitehead	50	19
1715	59	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	55	12
1716	64	Off Split Point, Nfld.	21 Jul 1979	H. Whitehead	48	17
1717	60	Off Split Point, Nfld.	21 Jul 1979	H. Whitehead	46	28
1718	46	NE of N. Baccalieu, Nfld.	31 Jul 1979	H. Whitehead	53	29
1719	47	Off Split Point, Nfld.	28 Jul 1979	H. Whitehead	50	32
1720	67	S of S. Baccalieu, Nfld.	21 Jul 1979	H. Whitehead	48	16
1721	70	SE of Split Point, Nfld.	21 Jul 1979	H. Whitehead	47	7
1722	74	SE off Split Point, Nfld.	21 Jul 1979	H. Whitehead	47	5
1723	78	Off Backside, Nfld.	21 Jul 1979	H. Whitehead	44	32
1724	39	Off Horse Island, Nfld.	31 Aug 1979	H. Whitehead	68	26
1725	37	Off Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65	31
1726	37	Off Square Island, Lab.	24 Aug 1979	H. Whitehead	67	16
1727	63	Off American Tickle, Lab.	23 Aug 1979	H. Whitehead	61	31
1728	39	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	64	8
1729	48	Off Ship Island, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	58	23
1730	55	Off Arch Tickle, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	57	3
1731	66	Off St. Michael's Bay, Lab.	24 Aug 1979	H. Whitehead	67	28
1732	61	Off Salvage, Bonavista Bay, Nfld.	08 Aug 1979	H. Whitehead	56	9
1733	38	Trinity Bay, off British Harbor, Nfld.	18 Jul 1979	J. Goodyear		16xA
1734	46	Square Island, Lab.	24 Aug 1979	H. Whitehead	66	30
1735	44	Salvage, Bonavista Bay, Nfld.	08 Aug 1979	H. Whitehead	56	5
1736	39	Off Trinity, Nfld.	14 Sep 1979	L. Pacheco	2	1
1737	40	Off Little Denier, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	57	17



WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME
1738	43	Green Island, Trinity Bay, Nfld.	16 Aug 1979	J. Goodyear	27xA
1739	38	Salvage, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	58 16
1740	42	Bonavista Bay, Nfld.	16 Aug 1979	M. Rosen	
1741	41	Ship Island, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	58 19
1742	40	S. Bay lower Bonavista Bay, Nfld.	17 Aug 1979	J. Goodyear	29x
1743	40	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	56 13
1744	44	Greenspond, Bonavista Bay, Nfld.	11 Aug 1979	H. Whitehead	60 30
1745	44	Salvage, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	58 7
1746	45	Little Denier, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	57 27
1747	43	Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65 25
1748	44	Grandby Island, Lab.	20 Aug 1979	H. Whitehead	61 12
1749	40	Greenspond, Bonavista Bay, Nfld.	03 Sep 1979	H. Whitehead	69 9
1750 A	41	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	63 15
1750 B	41	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	65 6
1751	49	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 2
1752	44	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	63 30
1753	65	Dunfield Bight, Trinity Bay, Nfld.	05 Jul 1979	J. Goodyear	11xA
1754	58	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60 9
1755	59	Off Greenspond, Nfld.	09 Aug 1979	H. Whitehead	59 34
1756	60	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 11
1757	58	Off Great Black Island, Nfld.	11 Aug 1979	H. Whitehead	59 5
1758	61	Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	66 10
1759	49	Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	66 2
1760	59	Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 0
1761	70	Little Denier, Nfld.	08 Aug 1979	H. Whitehead	57 24
1762	37	Little Denier, Nfld.	08 Aug 1979	H. Whitehead	57 28
1763	71	Salvage, Nfld.	08 Aug 1979	H. Whitehead	56 4
1764	62	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60 5
1765 A	59	Split Point Cove, Nfld.	27 Jun 1979	H. Whitehead	12 17
1765 B	59	Trinity, New Horse Chops, Nfld.	16 Jul 1979	P. Beamish	306 11
1766	60	Off American Tickle, Lab.	23 Aug 1979	H. Whitehead	62 10
1767	54	American Tickle, Lab.	23 Aug 1979	H. Whitehead	62 6
1768	41	NE of Corbett Island, Lab.	23 Aug 1979	H. Whitehead	62 19
1769	38	NE of Corbett Island, Lab.	23 Aug 1979	H. Whitehead	62 13
1770	72	Square Island, Lab.	24 Aug 1979	H. Whitehead	67 10
1771	71	Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	66 5
1772	69	Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	66 11
1773	75	Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 32
1774	75	Stony Island, Lab.	24 Aug 1979	H. Whitehead	65 13
1775	72	Lower Southern Bonavista Bay, Nfld.	17 Aug 1979	J. Goodyear	29x
1776	74	Off Greenspond, Nfld.	09 Aug 1979	H. Whitehead	59 30
1777	61	Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 23
1778	68	Off Salvage, Bonavista Bay, Nfld.	08 Aug 1979	H. Whitehead	56 1
1779	61	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60 24
1780	71	Near Salvage, Nfld.	09 Aug 1979	H. Whitehead	58 8
1781	67	Off Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65 30
1782	68	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60 20
1783	52	Near Salvage, Nfld.	09 Aug 1979	H. Whitehead	58 2
1784		VACANT			
1785	69	E of Baccalieu, Nfld.	07 Aug 1979	H. Whitehead	54 9
1786	73	Newman Sound, Nfld.	-- Aug 1979	M. Rosen	

WHALE

NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1787	67	Little Denier, Nfld.	08 Aug 1979	H. Whitehead	57	26
1788	76	Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65	19
1789	64	Greenspond, Nfld.	03 Sep 1979	H. Whitehead	69	2
1790	73	Great Black Island, Nfld.	09 Aug 1979	H. Whitehead	59	2
1791	73	St. Michael's Bay, Lab.	24 Aug 1979	H. Whitehead	67	26
1792	70	Near Salvage, Nfld.	09 Aug 1979	H. Whitehead	58	10
1793	72	English Harbor, Trinity Bay, Nfld.	17 Jul 1979	J. Goodyear		15x
1795	67	Near Salvage, Nfld.	09 Aug 1979	H. Whitehead	58	1
1796	70	Off St. Michael's Bay, Lab.	24 Aug 1979	H. Whitehead	67	23
1797	70	St. Michael's Bay, Lab.	24 Aug 1979	H. Whitehead	67	25
1798	74	Greenspond, Nfld.	09 Aug 1979	H. Whitehead	59	27
1799	61	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	63	19
1800	68	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	65	10
1801	68	Salvage, Nfld.	08 Aug 1979	J. Lien (Paul)	3	
1802	72	Square Island, Lab.	24 Aug 1979	H. Whitehead	66	21
1803	66	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	55	3
1804		VACANT				
1805	71	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	55	11
1806	75	Salvage, Nfld.	08 Aug 1979	H. Whitehead	55	13
1807	79	Off Green Island, Trinity Bay, Nfld.	24 Aug 1979	P. Beamish		
1808	68	Off Greenspond, Nfld.	03 Sep 1979	H. Whitehead	68	30
1809	76	Off Trinity, Nfld.	25 Jul 1979	J. Tatum		
1810		VACANT				
1811	74	Salvage, Nfld.	09 Aug 1979	J. Lien (Paul)	1	x86
1812	74	Off English Harbor, Trinity Bay, Nfld.	25 Jul 1979	J. Goodyear		19xB
1813	74	Split Point Cove, Nfld.	24 Jun 1979	H. Whitehead	12	18
1814	79	Off Trinity, Trinity Bay, Nfld.	25 Jul 1979	J. Tatum		
1815	80	Fishing Islands, Lab.	20 Aug 1979	H. Whitehead	61	20
1816	80	Off Greenspond, Nfld.	09 Aug 1979	H. Whitehead	59	33
1817	74	Off S. Baccalieu, Nfld.	31 Jul 1979	H. Whitehead	52	31
1818	77	Trinity Harbor, Nfld.	-- ----	M. Moore	MJM	23A
1819	77	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60	13
1820	79	Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65	26
1821	79	Greenspond, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	59	25
1822	79	Stony Island, Lab.	24 Aug 1979	H. Whitehead	65	1
1823	80	Off Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	66	9
1824	50	Dunfield Bight, Trinity Bay, Nfld.	05 Jul 1979	J. Goodyear		11xB
1825	79	Bonavista Bay, Nfld.	Summer 1979	M. Rosen		
1826	79	Off Greenspond, Bonavista Bay, Nfld.	03 Sep 1979	H. Whitehead	68	32
1827	81	Off Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65	20
1828 A	78	Off Trinity, Trinity Bay, Nfld.	11 Sep 1979	P. Beamish		
1828 B	78	Off Trinity, Trinity Bay, Nfld.	11 Sep 1979	P. Beamish		
1829	76	Salvage, Nfld.	08 Aug 1979	H. Whitehead	56	2
1830	77	Greenspond, Bonavista Bay, Nfld.	03 Sep 1979	H. Whitehead	69	11
1831	78	Greenspond, Bonavista Bay, Nfld.	11 Aug 1979	H. Whitehead	60	11
1832	88	Off Greenspond, Bonavista Bay, Nfld.	03 Sep 1979	H. Whitehead	69	1
1833	88	Off Salvage, Bonavista Bay, Nfld.	08 Aug 1979	H. Whitehead	54	14



WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME
1834	56	English Harbor, Trinity Bay, Nfld.	25 Jul 1979	J. Goodyear	19xA
1835	50	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	53 30
1836	45	Off Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65 17
1837	49	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	56 26
1838	49	Off Great Black Island, Nfld.	09 Aug 1979	H. Whitehead	59 7
1839	48	Off Hawke Island, Lab.	23 Aug 1979	H. Whitehead	61 27
1840	56	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 3
1841	47	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60 4
1842	48	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	55 33
1843	49	Stony Island, Lab.	24 Aug 1979	H. Whitehead	65 16
1844	53	Off Corbett Island, Lab.	23 Aug 1979	H. Whitehead	62 23
1845	47	Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 21
1846	47	Off Granby Island, Lab.	20 Aug 1979	H. Whitehead	61 14
1847	47	Lower S. Lower Bonavista Bay, Nfld.	06 Aug 1979	J. Goodyear	24x
1848	50	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 29
1849	67	American Tickle, Lab.	23 Aug 1979	H. Whitehead	61 32
1850		VACANT			
1851	50	Square Island, Lab.	24 Aug 1979	H. Whitehead	67 9
1852	54	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	56 14
1853	43	Square Island, Lab.	24 Aug 1979	H. Whitehead	67 15
1854	58	Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	66 1
1855	52	Trinity Bay, off English Harbor, Nfld.	25 Jul 1979	J. Goodyear	19x
1856	53	Salvage, Nfld.	09 Aug 1979	J. Lien (Paul)	4
1857	60	Off Square Island, Lab.	24 Aug 1979	H. Whitehead	67 5
1858	52	Square Island, Lab.	24 Aug 1979	H. Whitehead	66 25
1859	60	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	55 21
1860	47	Mid Bonavista Bay, Nfld.	03 Sep 1979	H. Whitehead	69 17
1861	48	N of Baccalieu, Nfld.	14 Jul 1979	H. Whitehead	33 7
1862	39	S of Split Point, Nfld.	21 Jul 1979	H. Whitehead	46 3
1863	40	Backside, Nfld.	28 Jul 1979	H. Whitehead	51 23
1864	41	Off S. Baccalieu, Nfld.	25 Jul 1979	H. Whitehead	50 13
1865	49	Salvage, Nfld.	08 Aug 1979	J. Lien	xx1
1866	50	Salvage, Nfld.	18 Jul 1979	J. Lien	
1867	69	Salvage, Nfld.	18 Jul 1979	J. Lien	
1868	47	Salvage, Nfld.	06 Aug 1979	J. Lien	xx1
1869	72	Salvage, Nfld.	18 Jul 1979	J. Lien	
1870	65	Salvage, Nfld.	18 Jul 1979	J. Lien	
1871	69	Salvage, Nfld.	09 Aug 1979	J. Lien	
1872	64	Salvage, Nfld.	08 Aug 1979	J. Lien	
1873	73	Salvage, Nfld.	08 Aug 1979	J. Lien	
1874	76	Salvage, Nfld.	08 Aug 1979	J. Lien	
1875	78	Salvage, Nfld.	08 Aug 1979	J. Lien	
1876	78	Newman Sound, Bonavista Bay, Nfld.	18 Aug 1979	J. Lien	xx1
1877	80	Newman Sound, Bonavista Bay, Nfld.	18 Aug 1979	J. Lien	xx2
1878	80	Salvage, Nfld.	19 Jul 1979	J. Lien	
1879	55	Off American Tickle, Lab.	23 Aug 1979	H. Whitehead	62 7
1880	51	Bay de Verde Bight, Nfld.	30 Jul 1979	H. Whitehead	52 2
1881	58	Off American Tickle, Lab.	23 Aug 1979	H. Whitehead	62 9
1882	59	Salvage, Nfld.	26 Aug 1979	J. Perkins	27-02 11
1883	58	Off Greenspond, Nfld.	03 Sep 1979	H. Whitehead	68 31
1884	65	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 28
1885	54	Off Stony Island, Lab.	24 Aug 1979	H. Whitehead	64 1
1886	53	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	56 31
1887	58	Off Square Island, Lab.	24 Aug 1979	H. Whitehead	67 19
1888	57	NE Corbett Island, Lab.	23 Aug 1979	H. Whitehead	62 15
1889	62	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60 32

WHALE						
NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
1890	63	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60	21
1891	62	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60	14
1892	58	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	59	31
1893	52	Ship Island, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	58	26
1894	53	Off St. Michael's Bay, Lab.	24 Aug 1979	H. Whitehead	67	24
1895	61	Stony Island, Lab.	24 Aug 1979	H. Whitehead	65	3
1896	56	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	55	7
1897	51	Off Trinity, Nfld.	11 Sep 1979	P. Beamish		
1898	62	Salvage, Nfld.	08 Aug 1979	H. Whitehead	55	31
1899	67	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	56	10
1900	60	Near Salvage, Nfld.	09 Aug 1979	H. Whitehead	58	11
1901	64	Off Great Black Island, Bonavista Bay, Nfld.	09 Aug 1979	H. Whitehead	59	13
1902	58	St. Michael's Bay, Lab.	24 Aug 1979	H. Whitehead	67	29
1903	59	Off Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65	22
1904	60	Off Cape Bluff, Lab.	24 Aug 1979	H. Whitehead	65	33
1905	48	Off Salvage, Nfld.	08 Aug 1979	H. Whitehead	55	10
1906	61	Off Trinity, Nfld.	11 Sep 1979	P. Beamish		
1907	53	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60	25
1908	61	Off Greenspond, Nfld.	11 Aug 1979	H. Whitehead	60	7
1909	62	Off Cape St. Michael's, Lab.	24 Aug 1979	H. Whitehead	68	1
1910	62	S. Bay near lower Bonavista Bay, Nfld.	06 Aug 1979	J. Goodyear		24x
1911	57	Dunfield Bight, Trinity Bay, Nfld.	05 Jul 1979	P. Beamish	304	30
1912	73	Trinity Bay, Nfld.	26 Aug 1979	P. Beamish	310	5
1913	37	Salvage, Nfld.	06 Aug 1979	J. Lien		xx1
1914	41	Salvage, Nfld.	19 Aug 1979	J. Lien (Paul)		SB3
1915	39	Newman Sound, Nfld.	25 Aug 1979	J. Lien		
1916	43	Salvage, Nfld.	06 Aug 1979	J. Lien		
1917	43	Salvage, Nfld.	06 Aug 1979	J. Lien		
1918	42	Salvage, Nfld.	06 Aug 1979	J. Lien		
1919 A	45	Newman Sound, Nfld.	23 Aug 1979	J. Lien		xx1
1919 B	45	Newman Sound, Nfld.	23 Aug 1979	J. Lien		xx2
1920	46	Salvage, Nfld.	06 Aug 1979	J. Lien		
1921	46	Salvage, Nfld.	06 Aug 1979	J. Lien		
1922	53	Salvage, Nfld.	06 Aug 1979	J. Lien		
1923	48	St. Vincent's, Nfld.	18 Jun 1979	J. Lien		
1924	50	Salvage, Bonavista Bay, Nfld.	06 Aug 1979	J. Lien		
1925		VACANT				
1926	61	Newman Sound, Nfld.	09 Aug 1979	J. Lien		
1927		VACANT				
1928	69	Salvage, Nfld.	08 Aug 1979	J. Lien		
1929	59	Salvage, Nfld.	06 Aug 1979	J. Lien		
1930	54	Salvage, Nfld.	06 Aug 1979	J. Lien		
1931	66	Salvage, Nfld.	18 Jul 1979	J. Lien	5	
1932	44	Salvage, Bonavista Bay, Nfld.	06 Aug 1979	J. Lien		
1933	67	Salvage, Nfld.	09 Aug 1979	J. Lien		
1934	57	Salvage, Nfld.	06 Aug 1979	J. Lien		
1935	66	Newman Sound, Nfld.	25 Aug 1979	T. Horn		24A
1936		VACANT				
1937	66	Salvage, Nfld.	06 Aug 1979	J. Lien		
1938	71	St. Vincent's, Nfld.	20 Jun 1979	J. Lien		
1939	71	Salvage, Nfld.	06 Aug 1979	J. Lien		
1940	63	Chamberlands, Conception Bay, Nfld.	24 Jun 1979	J. Lien	2	
1941	76	Salvage, Nfld.	06 Aug 1979	J. Lien		
1942	65	Newman Sound, Nfld.	18 Aug 1979	J. Lien		
1943	68	Salvage, Nfld.	-- -- --	J. Lien	5	
1944		VACANT				



WHALE					
NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME
1945	71	St. Vincent's, Nfld.	18 Jun 1979	J. Lien	
1946	76	Salvage, Nfld.	06 Aug 1979	J. Lien	
1947	81	Salvage, Nfld.	06 Aug 1979	J. Lien	
1948	40	Salvage, Bonavista Bay, Nfld.	06 Aug 1979	J. Lien	
1949		VACANT			
1950	57	Salvage, Nfld.	06 Aug 1979	J. Lien	
1951	57	Salvage, Nfld.	06 Aug 1979	J. Lien	
1952	43	Salvage, Nfld.	18 Aug 1979	J. Perkins	27-00 12A
1953	45	Salvage, Nfld.	16 Aug 1979	J. Perkins	26-97 3
1954	46	Salvage, Nfld.	18 Aug 1979	J. Perkins	27-00 5A
1955	52	Salvage, Nfld.	09 Aug 1979	J. Lien (Paul)	1 xx1
1956	62	Salvage, Nfld.	09 Aug 1979	J. Lien (Paul)	1
1957	53	Salvage, Nfld.	18 Aug 1979	J. Perkins	26-99 3
1958	65	Salvage, Nfld.	18 Aug 1979	J. Perkins	26-99 29
1959	51	Salvage, Nfld.	16 Aug 1979	J. Perkins	26-97 5
1960	70	Salvage, Nfld.	18 Aug 1979	J. Perkins	27-00 19A
1961	69	Salvage, Nfld.	26 Aug 1979	J. Perkins	27-02 3
1962	67	Salvage, Nfld.	06 Aug 1979	J. Lien	
1963	68	Salvage, Nfld.	16 Aug 1979	J. Perkins	26-97 9
1964	69	Salvage, Nfld.	19 Aug 1979	J. Perkins	27-01 8
1965	63	Salvage, Nfld.	08 Aug 1979	J. Lien (Paul)	3
1966	74	Salvage, Nfld.	09 Aug 1979	J. Lien (Paul)	4
1967	70	Salvage, Nfld.	18 Aug 1979	J. Perkins	26-99 22
1968	71	Salvage, Nfld.	12 Aug 1979	J. Perkins	26-96 1
1969	77	Salvage, Nfld.	09 Aug 1979	J. Lien (Paul)	1
1970	77	Salvage, Nfld.	16 Aug 1979	J. Perkins	26-97 15
1971	42	Salvage, Nfld.	09 Aug 1979	J. Lien (Paul)	1
1972	39	Salvage, Nfld.	19 Aug 1979	J. Lien (Paul)	2 xx3
1973	37	Salvage, Nfld.	16 Aug 1979	J. Perkins	26-97 11
1974	80	Off Greenspond, Nfld.	03 Sep 1979	H. Whitehead	69 12
1975	51	Salvage, Nfld.	18 Jul 1979	J. Lien	
1976	75	Salvage, Nfld.	08 Aug 1979	J. Lien (Paul)	2
1977	79	Trinity Bay, Nfld.	20 Jun 1979	W. Rossiter	6A
1978	68	Trinity Bay, Nfld.	14 Sep 1979	L. Pacheco	2 27
1979	81	Trinity Bay	14 Sep 1979	L. Pacheco	1 32
1980	81	Trinity Bay	14 Sep 1979	L. Pacheco	1 17
1981A	81	Trinity Bay	14 Sep 1979	L. Pacheco	1 08
1981B	81	Trinity Bay	14 Sep 1979	L. Pacheco	2 06
1982	81	Salvage, Nfld.	6-8 Aug 1979	J. Lien	
2001	141	Puerto Rico	20 Feb 1979	Matilla/Ward	14 25
2002		VACANT			
2003		VACANT			
2004		VACANT			
2005		VACANT			
2006		VACANT			
2007	142	Puerto Rico	17 Mar 1979	Matilla/Ward	23 33
2008	141	Puerto Rico	26 Jan 1979	Matilla/Ward	2 25
2009		VACANT			
2010		VACANT			
2011		VACANT			
2012	141	Puerto Rico	-- --- 1979	Matilla/Ward	15 10
2013	141	Puerto Rico	12 Feb 1979	Matilla/Ward	13 19
2014		VACANT			
2015		VACANT			
2016		VACANT			
2017	141	Puerto Rico	17 Mar 1979	Matilla/Ward	23 35
2018	142	Puerto Rico	06 Feb 1979	Matilla/Ward	8 4
2019		VACANT			
2020		VACANT			
2021	141	Puerto Rico	11 Feb 1979	Matilla/Ward	10 27
2022		VACANT			

WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
2023	141	Puerto Rico	07 Mar 1979	Matilla/Ward	21	21
2024	141	Puerto Rico	26 Jan 1979	Matilla/Ward	2	27
2025	141	Puerto Rico	03 Mar 1979	Matilla/Ward	18	6
2026		VACANT				
2027		VACANT				
2028		VACANT				
2029		VACANT				
2030		VACANT				
2031	141	Puerto Rico	28 Feb 1979	Matilla/Ward	17	4
2032		VACANT				
2033	145	Puerto Rico	11 Feb 1979	Matilla/Ward	12	27
2034		VACANT				
2035		VACANT				
2036		VACANT				
2037	143	Puerto Rico	07 Feb 1979	Matilla/Ward	8	31
2038		VACANT				
2039	143	Puerto Rico	07 Feb 1979	Matilla/Ward	8	34
2040	142	Puerto Rico	15 Feb 1978	Matilla/Ward		
2041	142	Puerto Rico	16 Feb 1978	Matilla/Ward		
2042	143	Puerto Rico	19 Feb 1978	Matilla Ward		
2043	144	Puerto Rico	26 Feb 1978	Matilla/Ward		
2044	142	Puerto Rico	14 Mar 1978	Matilla/Ward		
2045	144	Puerto Rico	14 Mar 1978	Matilla/Ward		
2046		VACANT				
2047		VACANT				
2048	142	Puerto Rico	27 Jan 1979	Matilla/Ward	3	18
2049		VACANT				
2050	143	Puerto Rico	27 Jan 1979	Matilla/Ward	3	10
2051		VACANT				
2052		VACANT				
2053		VACANT				
2054	142	Puerto Rico	04 Mar 1979	Matilla/Ward	19	2
2055		VACANT				
2056		VACANT				
2057	142	Puerto Rico	25 Jan 1979	Matilla/Ward	1	12
2058	144	Puerto Rico	08 Feb 1979	Matilla/Ward	9	11
2059		VACANT				
2060		VACANT				
2061	143	Puerto Rico	05 Feb 1979	Matilla/Ward	6	20
2062	144	Puerto Rico	11 Feb 1979	Matilla/Ward	11	16
2063		VACANT				
2064		VACANT				
2065		VACANT				
2066		VACANT				
2067		VACANT				
2068		VACANT				
2069	143	Puerto Rico	07 Feb 1979	Matilla/Ward	6	7
2070		VACANT				
2071	142	Puerto Rico	05 Feb 1979	Matilla/Ward	7	11
2072	143	Puerto Rico	14 Mar 1978	Matilla/Ward	8	3
2073		VACANT				
2074	146	Puerto Rico	05 Feb 1979	Matilla/Ward	7	14
2075		VACANT				
2076		VACANT				
2077	144	Puerto Rico	26 Jan 1979	Matilla/Ward	2	22
2078	144	Puerto Rico	26 Jan 1979	Matilla/Ward	2	21
2079		VACANT				
2080		VACANT				
2081	143	Puerto Rico	01 Feb 1979	Matilla/Ward	5	6
2082		VACANT				
2083	143	Puerto Rico	06 Mar 1979	Matilla/Ward	20	8



WHALE NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
2084	144	Puerto Rico	28 Jan 1979	Matilla/Ward	4	16
2085	144	Puerto Rico	28 Feb 1979	Matilla/Ward	17	1
2086	144	Puerto Rico	08 Feb 1979	Matilla/Ward	9	23
2087		VACANT				
2088	145	Puerto Rico	09 Feb 1979	Matilla/Ward	9	35
2089		VACANT				
2090		VACANT				
2091	145	Puerto Rico	06 Feb 1979	Matilla/Ward	7	35
2092	145	Puerto Rico	05 Feb 1979	Matilla/Ward	7	21
2093	145	Puerto Rico	20 Feb 1979	Matilla/Ward	14	28
2094	143	Puerto Rico	05 Mar 1978	B. Baxter	74-1	7A
2095	144	Puerto Rico	05 Mar 1978	B. Baxter	74-1	6A
2500	136	Silver Bank	07 Feb 1978	D. Larsen	DL3	
2501	135	Silver Bank	08 Feb 1978	S. Whiting	SW2	20
2502	138	Silver Bank	31 Jan 1978	H. Winn	4	10
2503	135	Silver Bank	07 Feb 1978	H. Winn	1	10
2504 A	139	Silver Bank	26 Jan 1978	H. Winn	2	18
2504 B	139	Silver Bank	26 Jan 1978	S. Whiting	SW1	12
2505	134	Silver Bank	26 Jan 1978	H. Winn	2	5
2506 A	136	Silver Bank	01 Feb 1978	H. Winn	WS5	27
2506 B	136	Silver Bank	01 Feb 1978	H. Winn	5	32
2507	137	Silver Bank	08 Feb 1978	H. Winn	6	4
2508	135	Silver Bank	26 Jan 1978	H. Winn	1	13
2509 A	136	Silver Bank	31 Jan 1978	H. Winn	2	1
2509 B	136	Silver Bank	31 Jan 1978	H. Winn	3	24
2510	134	Silver Bank	14 Feb 1978	H. Winn	7	26
2511	137	Silver Bank	10 Mar 1979	SW/FH		13
2512	140	Navidad Bank	10 Feb 1973	H. Winn	1	22
2513	139	Silver Bank	22 Mar 1977	P. Cohen	28	7
2514		VACANT				
2515		VACANT				
2516	135	Samana Bay, Dominican Rep.	-- Feb 1979	S. Whiting		
2517	140	Silver Bank	22 Mar 1977	P. Cohen	28	20
2518	138	Silver Bank	25 Jan 1978	B. Baxter	5-1	26
2519	135	Navidad Bank	22 Jan 1978	B. Baxter	4B-1	5A
2520	139	Navidad Bank	04 Jan 1978	B. Baxter	3-2	10
2521	135	Navidad Bank	07 Jan 1978	B. Baxter	3-7	24
2522	136	Navidad Bank	22 Jan 1978	B. Baxter	4B-1	
2523	136	Navidad Bank	04 Jan 1978	B. Baxter	3-2	9A
2524	137	Silver Bank	-- Mar 1977	P. Cohen		
2525	137	Silver Bank	07 Jan 1978	B. Baxter	3-7	26
2526	139	Silver Bank	07 Jan 1978	K. Balcomb	3-9	7A
2527	139	Silver Bank	-- Mar 1977	P. Cohen		
2528	134	Navidad Bank	07 Mar 1977	P. Cohen	20	24
2529	138	Silver Bank	10 Mar 1977	P. Cohen	25	8
2530	138		23 Feb 1977	P. Cohen	F2-9	23
2531	139			H. Winn	3	36
2532	140	Silver Bank	02 Feb 1978	C. Frick	5-7	17A
2533 A	139	Silver Bank	07 Jan 1978	B. Baxter	307	25A
2533 B	139	Silver Bank	07 Jan 1978	B. Baxter	3-6	13
2534		VACANT				
2535	140	Navidad Bank	07 Mar 1977	P. Cohen	17	8
2536	134	Silver Bank	10 Apr 1979	S. Whiting	2	29A
2537	137	Silver Bank	09 Mar 1979	R. Bonner		34
2538	134	Silver Bank	09 Mar 1979	R. Bonner		
2539		VACANT				
2540	137	Silver Bank	11 Mar 1979	S. Bloom		
2541	138	VACANT	11 Mar 1979	S. Bloom		
2542	138	Silver Bank	09 Mar 1979	R. Bonner		
2543 A	140	Silver Bank	10 Apr 1979	S. Whiting	2	27A
2543 B	140	Silver Bank	10 Apr 1979	S. Whiting	2	26A

WHALE

NO.	PAGE	LOCATION	DATE	PHOTOGRAPHER	ROLL/FRAME	
2544	139	Samana Bay, Dominican Rep.	-- Jan 1980	S. Whiting		
2545	140	Navidad Bank	10 Feb 1973	H. Winn		
2546		VACANT				
2547	135					
2548	136	Silver Bank	-- --- 1977	K. Balcomb	171	28
2549	134	Silver Bank	-- --- 1977	K. Balcomb	16	29A
6000	132	Bermuda	24 Apr 1977	B. Conrad	12	33
6001	131	Bermuda	24 Apr 1977	P. Grabhorn	15	14A
6002 A	131	Bermuda	27 Apr 1977	P. Cohen		
6002 B	131	Bermuda	-- --- ----	B. Conrad	13	23
6003	130	Bermuda	27 Apr 1977	P. Cohen		
6004	130	Bermuda	27 Apr 1977	P. Cohen		
6005 A	132	Bermuda	30 Apr 1977	K. Balcomb		
6005 B	132	Bermuda	30 Apr 1977	B. Conrad	14	
6006	131	Bermuda	19 Apr 1980	G. Stone	12	
6007	130	Ireland Island, Bermuda	13 Apr 1980	H. Siggins		10A
6008	132	Bermuda	19 Apr 1980	G. Stone	10	
6009	132	Bermuda	19 Apr 1980	G. Stone		6
6010	130	Bermuda	19 Apr 1980	G. Stone		
6011	133	Bermuda	-- --- 1969	O. Brazier		









